

# DEPARTMENT OF THE AIR FORCE

## COMMITTEE STAFF PROCUREMENT BACKUP BOOK FY 1998/1999 BUDGET ESTIMATES FEBRUARY 1997



19970314 010

OTHER PROCUREMENT, AIR FORCE

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(AF/ILSR)

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT BUDGET ESTIMATES  
FOR FISCAL YEARS 1998-1999

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Tables of contents are provided for each of the budget activities at the appropriate tabs. The budget activities are as follows:

Vehicular Equipment  
Communications and Electronics  
Other Base Maintenance and Support Equipment  
Spares and Repair Parts



## IDENTIFICATION CODES

Code "A" - Line items of material which have been approved for Air Force service use; i. e., line items which have been classified as standard or alternate.

Code "B" - Line items of material that have not been approved for Service use as defined in Code "A".

## GLOSSARY

### Contract Method

Allot - Allotment  
C - Competitive  
DO - Delivery Order  
FCA - Fund Cite Authority  
MIPR - Military Interdepartmental Purchase Request  
OA - Obligation Authority  
OPT - Option  
PO - Project Order  
Reqn - Requisition  
SS - Sole Source  
WP - Work Project

NOTE: In the event a contract is multi-year, "M" will be added to the above code with a number to indicate the number of years (e. g., SSM-2).

### Contract Type

C/FP - Competitive/Fixed Price  
C/FPIS - Competitive Fixed Price Incentive with Successive Targets  
CM-5 - Competitive Multi-year - 5 years  
CPAF - Cost Plus Award Fee  
CPFF - Cost Plus Fixed Fee  
CPIF - Cost Plus Incentive Fee  
FFP - Firm Fixed Price  
FP - Fixed Price  
FPAF - Fixed Price Award Fee  
FPE - Fixed Price with Escalation  
ID/IQ - Indefinite Delivery/Indefinite Quantity

Contracted By

11 SptWG - 11<sup>th</sup> Support Wing, Washington, DC  
ACC - Air Combat Command, Langley AFB, VA  
AEDC - Arnold Engineering Development Center, Arnold AFB, TN  
AETC - Air Education and Training Command, Randolph AFB, TX  
AFCA - Air Force Communications Command, Scott AFB, IL  
AFCEA - Air Force Civil Engineering Support Agency, Tyndall AFB, FL  
AFFTC - Air Force Flight Test Center, Edwards AFB, CA  
AFMC - Air Force Materiel Command, Wright-Patterson AFB, OH  
AFMC/ESC-38ELW/CSPO - AF Materiel Cmd/Elec Sys Ctr - 38 Engineering & Installation Wing/Comm Sys  
Pgm Office, Tinker AFB, OK

AIA - Air Intelligence Agency, Kelly AFB, TX  
AMC - Air Mobility Command, Scott AFB, IL  
ASC - Aeronautical Systems Center, Wright - Patterson AFB, OH & Eglin AFB, FL  
AWS - Air Weather Service, Scott AFB, IL  
ER - Eastern Range, Patrick AFB, FL  
ESC - Electronic Systems Center, Hanscom AFB, MA  
HSC - Human Services Center, Brooks AFB, TX  
OC-ALC - Oklahoma City Air Logistics Center, Tinker AFB, OK  
OO-ALC - Ogden Air Logistics Center, Hill AFB, UT  
SA-ALC - San Antonio Air Logistics Center, Kelly AFB, TX  
SM-ALC - Sacramento Air Logistics Center, McClellan AFB, CA  
SMC - Space & Missile Systems Center, Los Angeles AFB, CA  
US STRATCOM - US Strategic Command, Offutt AFB, NE  
WACC - Washington Area Contracting Center, Washington, DC  
WR - Western Range, Vandenberg AFB, CA  
WR-ALC - Warner-Robins Air Logistics Center, Robins AFB, GA  
AFSPC - Air Force Space Command, Peterson AFB, CO  
HQANG - Headquarters, Air National Guard, Washington, DC  
USAFE - United States Air Force, Europe, Ramstein AFB, GE  
USAF A - United States Air Force Academy, Colorado Springs, CO  
SSG - Standard Systems Group, Maxwell AFB-Gunter Annex, AL

Bases/Organizations

11 SptW - 11<sup>th</sup> Support Wing  
ACC - Air Combat Command  
AETC - Air Education & Training Command  
AFC4A - Air Force Command, Control, Communications & Computer Agency

AFCAO - Air Force Computer Acquisition Office  
 AFCESA - Air Force Civil Engineering Support Agency  
 AFCSC - Air Force Cryptologic Service Center  
 AFESC - Air Force Engineering Services Center  
 AFGWC - Air Force Global Weather Center  
 AFIT - Air Force Institute of Technology  
 AFMC - Air Force Materiel Command  
 AFNEWS - Air Force Information & News Service Center  
 AFOSI - Air Force Office of Special Investigation  
 AFPC - Air Force Personnel Center  
 AFPSL - AF Primary standards Lab  
 AFR - Air Force Reserve  
 AFSOC - AF Special Operations Command  
 AFSPC - Air Force Space Command  
 AIA - Air Intelligence Agency  
 AMC - Air Mobility Command  
 ANG - Air National Guard  
 AU - Air University  
 AWS - Air Weather Service  
 CIA - Central Intelligence Agency  
 DLA - Defense Logistics Agency  
 DOE - Department of Energy  
 DSCC - Defense Supply Center, Columbus  
 ER - Eastern Range  
 ESC - Electronics Systems Center  
 ESMC - Eastern Space & Missile Center  
 FAA - Federal Aviation Agency  
 FBI - Federal Bureau of Investigation  
 GSA - General Services Administration  
 JCS - Joint Chief of Staff  
 JSC - Johnson Space Center  
 NATO - North Atlantic Treaty Organization  
 NBS - National Bureau of Standards  
 PACAF - Pacific Air Forces  
 USAF - United States Air Force  
 USAFA - United States Air Force Academy  
 USAFE - United States Air Forces, Europe  
 USCENTCOM - United States Central Command  
 USEUCOM - United States European Command  
 USMC - United States Marine Corps

USSTRATCOM - United States Strategic Command  
WPAFB, Wright-Patterson AFB, OH  
WR - Western Range  
WSMC - Western Space and Missile Center

APPROPRIATION LANGUAGE

OTHER PROCUREMENT, AIR FORCE

For procurement and modification of equipment (including ground guidance and electronic control equipment, and ground electronic and communication equipment), and supplies, materials, and spare parts therefor, not otherwise provided for; the purchase of not to exceed 1 vehicle required for physical security of personnel, notwithstanding price limitation applicable to passenger vehicles but not to exceed \$232,340 per vehicle; the purchase of not to exceed 196 passenger motor vehicles of which all shall be for replacement only; and expansion of public and private plants, Government-owned equipment and installation thereof in such plants, erection of structures, and acquisition of land, for the foregoing purposes, and such lands and interests therein, may be acquired, and construction prosecuted thereon, prior to approval of title; reserve plant and Government and contractor-owned equipment layaway; \$6,561,253,000 to remain available for obligation until September 30, 2000.

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DEPARTMENT OF THE AIR FORCE  
FY 1998/1999 PROCUREMENT PROGRAM

SUMMARY  
(\$ IN MILLIONS)

FEB 1997

APPROPRIATION: OTHER PROCUREMENT, AIR FORCE

ACTIVITY	FY 1996	FY 1997	FY 1998	FY 1999
02. VEHICULAR EQUIPMENT	135.9	99.4	180.6	230.6
03. ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT	739.5	843.1	835.6	881.6
04. OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT	5,580.1	5,046.5	5,489.3	5,591.7
05. SPARE AND REPAIR PARTS	57.7	37.0	55.8	51.0
TOTAL	6,513.1	6,026.0	6,561.3	6,754.9

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
FY 1998/1999 PROCUREMENT PROGRAM

EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999	
			UNIT COST		QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
BUDGET ACTIVITY 02: VEHICULAR EQUIPMENT												
PASSENGER CARRYING VEHICLES												
1	SEDAN, 4 DR 4X2	A	17,272	141	1.8	153	2.3	88	1.5	122	1.9	U
2	STATION WAGON, 4X2	A	17,142	69	1.0	57	.9	7	.1	54	1.0	U
3	BUSES	A	54,647	44	2.2	91	4.8	17	.9	57	3.1	U
4	AMBULANCES	A	82,333			3	.2	3	.2	3	.3	U
5	LAW ENFORCEMENT VEHICLE	A	20,037	85	1.4	199	3.3	80	1.6	137	2.9	U
6	ARMORED SEDAN	A	232,000	1	.2	1	.2	1	.2	1	.2	U
CARGO + UTILITY VEHICLES												
7	TRUCK, CARGO-UTILITY, 3/4T, 4X4	A	28,662	111	2.8	317	8.3	154	4.4	91	2.7	U
8	TRUCK, CARGO-UTILITY, 1/2T, 4X2	A	24,292			257	5.7	106	2.6	237	5.9	U
9	TRUCK, PICKUP, 1/2T, 4X2	A	13,719	187	2.6	572	7.7	292	4.0	326	4.6	U
10	TRUCK, PICKUP, COMPACT	A	13,014	433	4.9	556	6.5	206	2.7	165	2.3	U
11	TRUCK MULTI-STOP 1 TON 4X2	A	27,305	164	3.7	419	11.1	301	8.2	378	10.6	U
12	TRUCK CARRYALL	A	23,653			145	2.8	150	3.5	186	4.3	U
13	COMMERCIAL UTILITY CARGO VEHICLE	A	33,744					43	1.5	109	3.7	U
14	TRUCK, CARGO, M-35, SLEP	A		50	2.7							U

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999	
			UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
15	MEDIUM TACTICAL VEHICLE	A	123,523	56	5.9		21	2.6				U
16	HIGH MOBILITY VEHICLE (MVP)	A	51,650			100	5.2					U
17	TRUCK TRACTOR, OVER 5T	A	70,962	58	3.7	38	2.7	1.9	35	2.5		U
18	CAP VEHICLES	A			.8		.8	.7		.7		U
19	ITEMS LESS THAN \$2,000,000	A			11.4		13.2	5.0		11.4		U
SPECIAL PURPOSE VEHICLES												
20	TRUCK TANK FUEL R-11	A		137	18.2							U
21	HMMV, ARMORED	A	193,448	25	3.8	38	7.4	24.2	28	5.5		U
22	TRACTOR, TOW, FLIGHTLINE	A	30,943	152	4.2	108	3.1	3.8	306	9.7		U
23	ITEMS LESS THAN \$2,000,000	A			6.5		4.9	6.7		10.2		U
FIRE FIGHTING EQUIPMENT												
24	TRUCK CRASH P-19	A	292,571			7	2.0		5	1.5		U
25	TRUCK CRASH P-23	A							4	2.5		U
26	HEAVY RESCUE VEHICLE	A		15	3.1							U

\* ITEMS UNDER \$50,000

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DEPARTMENT OF THE AIR FORCE  
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EXHIBIT P-1

APPROPRIATION: 3080F OTHER PROCUREMENT, AIR FORCE

DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)	MILLIONS OF DOLLARS							
			FY 1998 UNIT COST	FY 1996		FY 1997		FY 1998		FY 1999	
				QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST
27	ITEMS LESS THAN \$2,000,000	A		1.4					3.7		2.0 U
MATERIALS HANDLING EQUIPMENT											
28	TRUCK, F/L 10,000 LB	A	67,615								
29	60K A/C LOADER	A	1,385,716	34	42.3			26	1.8	71	5.1 U
30	NEXT GENERATION SMALL LOADER(NGSL)	A						60	83.1	60	93.4 U
31	ITEMS LESS THAN \$2,000,000	A		1.5						22	30.0 U
BASE MAINTENANCE SUPPORT											
32	TRUCK, DUMP 5CY	A	65,218								
33	MODIFICATIONS	A						32	2.1	34	1.5 U
34	ITEMS LESS THAN \$2,000,000	A			1.4		4.2		.2		.2 U
CANCELLED ACCOUNT ADJUSTM											
					8.3		2.0		3.8		5.8 U
35	CANCELLED ACCOUNT ADJUSTMENTS	A									
TOTAL VEHICULAR EQUIPMENT											
				-----	4.8	-----					U
				135.9		99.4			180.6		230.6
BUDGET ACTIVITY 03: ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT											
-----											
COMM SECURITY EQUIPMENT(COMSEC)											
36	COMSEC EQUIPMENT	A		33.3			27.3				33.1 U

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999		S
			UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	
37	MODIFICATIONS (COMSEC)	A			.8								.5 U
INTELLIGENCE PROGRAMS													
38	INTELLIGENCE DATA HANDLING SYS	A			17.0		14.0		20.7				18.1 U
39	INTELLIGENCE TRAINING EQUIPMENT	A			2.3		2.0		2.5				5.9 U
40	INTELLIGENCE COMM EQUIP	A			5.0		11.2		7.6				5.4 U
41	ITEMS LESS THAN \$2,000,000	A			1.0								U
ELECTRONICS PROGRAMS													
42	NATIONAL AIRSPACE SYSTEM	A							16.6				54.6 U
43	THEATER AIR CONTROL SYS IMPROVEMENT	A			24.3		21.5		38.3				36.8 U
44	WEATHER OBSERV/FORCAST	A			8.9		17.9		18.0				22.0 U
45	STRATEGIC COMMAND AND CONTROL	A			38.3		22.7		20.5				10.9 U
46	CHEYENNE MOUNTAIN COMPLEX	A			8.6		3.1		.7				.9 U
47	TAC SIGINT SUPPORT	A			5.8		5.8		4.1				4.7 U
48	DRUG INTERDICTION PROGRAM	A			3.5								U
SPECIAL COMM-ELECTRONICS PROJECTS													
49	AUTOMATIC DATA PROCESSING EQUIP	A			30.9		31.2		36.1				32.4 U
50	AF GLOBAL COMMAND & CONTROL SYS	A			5.1		10.2		7.3				6.0 U

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999		S
			UNIT COST	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	
51	MOBILITY COMMAND AND CONTROL	A		.9			7.0		6.7			5.5	U
52	AIR FORCE PHYSICAL SECURITY SYSTEM	A		15.1		14.3			15.1			18.1	U
53	COMBAT TRAINING RANGES	A		2.1		11.4			13.3			14.6	U
54	MINIMUM ESSENTIAL EMERGENCY COMM NET	A							3.5			10.1	U
55	FORCE PROTECTION/ANTI-TERRORISM	A		13.6		101.4			54.4			4.4	U
56	C3 COUNTERMEASURES	A		10.4		9.1			14.9			10.8	U
57	JOINT SURVEILLANCE SYSTEM	A										11.4	U
58	BASE LEVEL DATA AUTO PROGRAM	A		26.7		22.4			46.8			36.7	U
59	THEATER BATTLE MGT C2 SYS	A		51.5		47.9			49.0			45.9	U
AIR FORCE COMMUNICATIONS													
60	INFORMATION TRANSMISSION SYSTEMS	A		16.9		12.2			10.9			11.1	U
61	BASE INFORMATION INFRASTRUCTURE	A		27.5		82.3			88.9			102.1	U
62	USCENTCOM	A		3.1		3.5			4.0			4.6	U
63	AUTOMATED TELECOMMUNICATIONS PRG	A		17.8		19.2			15.9			17.8	U
DISA PROGRAMS													
64	DEFENSE SUPPORT PROGRAM SPACE	A		34.4									U
65	NAVSTAR GPS SPACE	A		5.0		3.3			3.1			4.1	U

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		MILLIONS OF DOLLARS		S
			UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST C		
66	DEFENSE METEOROLOGICAL SAT PROG SPAC	A			14.0		10.5		11.9			11.0 U	
67	NUDET DETECTION SYS (NDS) SPACE	A			5.6		2.1		8.0			1.3 U	
68	AF SATELLITE CONTROL NETWORK SPACE	A			24.1		17.1		32.2			40.0 U	
69	EASTERN/WESTERN RANGE I&M SPACE	A			110.4		101.7		82.0			100.9 U	
70	MILSATCOM SPACE	A			47.7		52.0		20.4			27.9 U	
71	SPACE MODS SPACE	A			31.5		23.4		18.9			6.0 U	
ORGANIZATION AND BASE													
72	TACTICAL C-E EQUIPMENT	A			29.1		64.0		17.0			31.9 U	
73	COMBAT SURVIVOR/EVADER LOCATER RADIO	B					2.9		5.7			14.1 U	
74	RADIO EQUIPMENT	A			12.0		10.5		12.8			15.5 U	
75	TV EQUIPMENT (AFRTV)	A			2.5		2.4		2.1			2.0 U	
76	CCTV/AUDIOVISUAL EQUIPMENT	A			5.8		4.0		4.0			3.3 U	
77	BASE COMM INFRASTRUCTURE	A			31.6		27.4		30.9			28.6 U	
78	CAP COM & ELECT	A							.4			.4 U	

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		MILLIONS OF DOLLARS		S
			FY 1998 UNIT COST	FY 1998 QUANTITY	FY 1997 COST	FY 1997 QUANTITY	
79	ITEMS LESS THAN \$2,000,000	A			9.6	9.0	8.7 U
MODIFICATIONS							
80	COMM ELECT MODS	A		9.7	14.2	53.3	61.3 U
TOTAL ELECTRONICS AND TELECOMMUNICATIONS EQUIPMENT				739.5	843.1	835.6	881.6
BUDGET ACTIVITY 04: OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT							
TEST EQUIPMENT							
81	BASE/ALC CALIBRATION PACKAGE	A		10.2	14.0	10.5	10.9 U
82	PRIMARY STANDARDS LABORATORY PACKAGE	A		1.4	1.6	1.7	1.6 U
83	ITEMS LESS THAN \$2,000,000	A		11.0	12.2	9.6	8.4 U
PERSONAL SAFETY AND RESCUE EQUIP							
84	NIGHT VISION GOGGLES	A		1.0	3.6	2.4	7.1 U
85	BREATHING APPARATUS TWO HOUR	A		3.8	2.0		U
86	UNIVERSAL WATER ACTIVATED REL SYS	B		7.5	1.0		U
87	ITEMS LESS THAN \$2,000,000	A		4.7	5.8	3.5	3.1 U
DEPOT PLANT + MATERIALS HANDLING EQ							
88	MECHANIZED MATERIAL HANDLING EQUIP	A		6.3	8.9	10.7	14.9 U

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DATE: FEB 1997

LINE NO	ITEM NOMENCLATURE	IDENT CODE	FY 1998		FY 1997		FY 1998		FY 1999		E
			UNIT COST	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST C	
89	ITEMS LESS THAN \$2,000,000 ELECTRICAL EQUIPMENT	A		4.0		5.7		4.0			2.0 U
90	GENERATORS-MOBILE ELECTRIC	A									
91	FLOODLIGHTS SET TYPE NF2D	A		.2		.6		3.7			2.4 U
92	ITEMS LESS THAN \$2,000,000 BASE SUPPORT EQUIPMENT	A		*				7.7			10.7 U
				.5		3.4		4.0			2.8 U
93	BASE PROCURED EQUIPMENT	A									
94	MEDICAL/DENTAL EQUIPMENT	A		4.7		6.0		6.9			5.8 U
95	ENVIRONMENTAL PROJECTS	A		12.4		15.3		13.3			12.4 U
96	AIR BASE OPERABILITY	B				.9		1.0			1.0 U
97	PALLET AIR CARGO	A		2.9		4.9		4.2			12.1 U
98	NET ASSEMBLY, 108"X88"	A		3.3		8.6		1.2			3.5 U
99	BLADDERS FUEL	A		1.9		1.9		3.0			1.9 U
100	AERIAL BULK FUEL DELIVERY SYSTEM	A		3.9		1.9		2.7			3.0 U
101	PHOTOGRAPHIC EQUIPMENT	A				2.1		2.1			4.3 U
102	PRODUCTIVITY INVESTMENTS	A		6.0		6.1		6.1			5.7 U
103	MOBILITY EQUIPMENT	A		17.3		10.0		6.0			9.0 U
				29.4		21.2		26.5			28.8 U

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LINE NO	ITEM NOMENCLATURE	IDENT CODE	(DOLLARS)		FY 1996		FY 1997		FY 1998		FY 1999		E
			UNIT COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	COST	QUANTITY	
104	DEPLOYMENT/EMPLOYMENT CONTAINERS	A		3.3				1.9		2.0			2.2 U
105	SPATIAL DISORIENTATION DEMONSTRATOR	A					1.9						U
106	AIR CONDITIONERS	A					.8		9.6				10.7 U
107	ITEMS LESS THAN \$2,000,000	A		10.2			5.0		9.7				14.6 U
SPECIAL SUPPORT PROJECTS													
108	INTELLIGENCE PRODUCTION ACTIVITY	A					64.3		60.6				64.8 U
109	TECH SURV COUNTERMEASURES EQ	A		1.0			1.1		2.0				2.1 U
110	DARP	A		71.4			77.0						U
111	DARP RC135	A											
112	DARP, MRIGS	A						12.8		13.0 U			
113	SELECTED ACTIVITIES	A						66.3		81.8 U			
114	SPECIAL UPDATE PROGRAM	A		5130.1			4566.7		5004.0				5052.9 U
115	INDUSTRIAL PREPAREDNESS	A		150.3			175.2		174.8				181.9 U
116	MODIFICATIONS	A		1.1			1.4		1.2				1.2 U
117	FIRST DESTINATION TRANSPORTATION	A		.1			.2		.2				.2 U
TOTAL OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				11.9			13.5		15.4				14.9 U
				5,580.1			5,046.5		5,489.3				5,591.7

\* ITEMS UNDER \$50,000

16

UNCLASSIFIED

PAGE F-31

## VEHICULAR EQUIPMENT



DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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VEHICULAR EQUIPMENT

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE SEDAN, 4 DR 4X2						FEBRUARY 1997	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	141	153	88	122	262	163	33	0			
COST (In Mil)	\$1.832	\$2.304	\$1.520	\$1.898	\$4.322	\$2.501	\$0.481	0			

- ## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	50	634,038	4	47,760
FY97	28	319,004	0	0
FY98	0	0	0	0
FY99	42	572,586	9	122,697

**UNCLASSIFIED**

## UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)														
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION				D. DATE FEBRUARY 1997			
OPAF/VEHICULAR EQUIPMENT			SEDAN, 4 DR 4X2				MULTIPLE - SEE P5A.							
Weapon System Cost Elements			IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
				QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
COMPACT US (BPAC 1012)	A	111	11940	1325	88	13058	1149	18	13339	240	75	13633	1022	
MIDSIZE US (BPAC 1013)	A	2	14395	29										
COMPACT JAPAN (BPAC 1014)	A	4	11500	46	4	12200	49	4	12615	50	1	12887	13	
COMPACT OSI OVERSEAS (BPAC 101F)	A	3	17169	52	11	17546	193	19	17957	341	28	18375	515	
COMPACT US BI-FUEL CNG (BPAC 101H)	A	21	18113	380	47	18210	856	47	18910	889	18	19327	348	
SUB-COMPACT US (CHASE) (BPAC 101J)	A				3	18929	57							
TOTAL		141		1832	153		2304	88		1520	122		1898	

P-1 SHOP LIST ITEM NO.		PAGE NO.		Exhibit P-5 Weapon System Cost Analysis	
1		2			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT			C. P-1 ITEM NOMENCLATURE SEDAN, 4 DOOR 4X2							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

COMPACT US (BPAC 1012)	FY96	GSA (GMC) WILMINGTON, DE	OPTION	AFMC/WR-ALC	MAR 96	JUN 96	71	11,469		
	FY96	GSA (CHRYSLER) CHICAGO, IL	OPTION	AFMC/WR-ALC	APR 96	JUL 96	40	12,777		
	FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	JUN 97	88	13058	YES	NO
	FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 98	JUN 98	18	13,339	YES	NO
	FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 99	JUN 99	75	13,633	YES	NO
MIDSIZE US (BPAC 1013)	FY96	GSA (CHEVROLET) OSHAWA, ONTARIO	OPTION	AFMC/WR-ALC	FEB 96	MAY 96	2	14,395		

D. REMARKS			P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
NOTE: FCA = FUND CITE AUTHORIZATION.			1	3	

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT						C. P-1 ITEM NOMENCLATURE SEDAN, 4 DOOR 4X2				A. DATE FEBRUARY 1997	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### COMPACT JAPAN (BPAC 1014)

FY96	NAVY (MITSUBISHI) JAPAN	MIPR	AFMC/WR-ALC	AUG 96	JAN 97	4	11,500				
FY97	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	SEP 97	4	12,200	YES	NO		
FY98	NAVY (UNKNOWN)	MIPR	AFMC/WR-ACL	APR 98	SEP 98	4	12,615	YES	NO		
FY99	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	SEP 99	1	12,887	YES	NO		
COMPACT OSI OVERSEAS (BPAC 101F)											
FY96	OSI (VW) GERMANY	FCA/FRG	AFMC/WR-ALC	AUG 96	JAN 97	3	17,169				
FY97	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	AUG 97	JAN 98	11	17,546	YES	NO		
FY98	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	AUG 98	JAN 99	19	17,957	YES	NO		
FY99	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	AUG 99	JAN 00	28	18,375	YES	NO		

### D. REMARKS

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO. 1			PAGE NO. 4	Exhibit P-5a Procurement History and Planning		
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# UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT										C. P-1 ITEM NOMENCLATURE SEDAN, 4 DOOR 4X2	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

COMPACT US BI-FUEL CNG (BPAC 101H)										
FY96	GSA (FORD) KANSAS CITY, MO	MIPR	AFMC/WR-ALC	APR 96	OCT 96	21	18,113			
FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	OCT 97	47	18,210	YES	NO	
FY98	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	OCT 98	47	18,910	YES	NO	
FY99	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	OCT 99	18	19,327	YES	NO	
SUB-COMPACT US (CHASE) (BPAC 101J)										
FY97	GSA (GMC) LANSING, MI	OPTION	AFMC/WR-ALC	JAN 97	MAY 97	3	18,929			

D. REMARKS		P-1 SHOPP LIST ITEM NO. 1		PAGE NO. 5	Exhibit P-5a Procurement History and Planning
NOTE: FCA = FUND CITE AUTHORIZATION.					

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE STATION WAGON, 4X2									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003					
QUANTITY	69	57	7	54	114	139	81	3					
COST (In Mil)	\$1.046	\$0.884	\$0.120	\$1.004	\$1.921	\$2.357	\$1.388	\$0.053					

1. This is a commercial, compact size vehicle equipped with a fuel efficient gasoline engine. It is used for transportation of personnel and light cargo. It also provides quick response transportation for alert force personnel supporting missile/aircraft launch. The total Air Force FY98 procurement requirement is 630 against an inventory objective of 959.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	9	136,476	0	0
FY97	22	341,154	0	0
FY98	0	0	0	0
FY99	24	385,032	14	302,652

P-1 SHOPP LIST ITEM NO.	PAGE NO.
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION									
OPAF/VEHICULAR EQUIPMENT		STATION WAGON, 4X2			MULTIPLE - SEE P5A									
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

COMPACT 4x2 US (BPAC 1111)	A	69	15164	1046	57	15507	884	5	15698	78	29	16043	465
COMPACT 4X2 JAPAN (BPAC 1112)	A										2	20823	42
COMPACT 4X2 US BI-FUEL CNG (BPAC 1117)	A							2	21152	42	23	21618	497
TOTALS		69		1046	57		884	7		120	54		1004

P-1 SHOPP LIST ITEM NO. 2		PAGE NO. 7	Exhibit P-5 Weapon System Cost Analysis	
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT

### C. P-1 ITEM NOMENCLATURE STATION WAGON, 4X2

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### COMPACT 4x2 US (BPAC 1111)

FY96	GSA (GMC) LANSING, MI	OPTION	AFMC/WR-ALC	FEB 96	MAY 96	64	15,036			
FY96	GSA (FORD) DETROIT, MI	OPTION	AFMC/WR-ALC	DEC 96	MAR 97	5	16,800			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	MAY 97	57	15,507	YES	NO	
FY 98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	MAY 98	5	15,698	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	MAY 99	29	16,043	YES	NO	

#### COMPACT 4x2 JAPAN (BPAC 1112)

FY95	PACAF (SUBARU) JAPAN	FCA/JPN	AFMC/WR-ALC	JUL 95	DEC 95	3	19,084			
FY99	PACAF (UNKNOWN)	FCA/JPN	AFMC/WR-ALC	JUL 99	DEC 99	2	20,823	YES	NO	

### D. REMARKS

\* FIRST BUY OF BI-FUEL CNG STATION WAGON.

NOTE: FCA = FUND CITE AUTHORIZATION.

P-1 SHOPP LIST ITEM NO. 2	PAGE NO. 8	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE STATION WAGON, 4X2						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

COMPACT 4X2 US BI-FUEL CNG (BPAC 1117)  FY98*	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	OCT 98	2	21,152	YES	NO	
	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	OCT 99	23	21,618	YES	NO	
FY99										

D. REMARKS * FIRST BUY OF BI-FUEL CNG STATION WAGON. NOTE: FCA = FUND CITE AUTHORIZATION.		P-1 SHOPP LIST ITEM NO. 2	PAGE NO. 9	Exhibit P-5a Procurement History and Planning
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## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		P-1 ITEM NOMENCLATURE						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	44	91	17	57	272	595	357	31
COST (In Mil)	\$2.249	\$4.813	\$0.929	\$3.100	\$15.784	\$35.508	\$21.475	\$2.054

1. These commercial buses are bought in a variety of sizes, ranging from 14 passenger to 52 passenger capacity. They equip our bases with a fuel efficient diesel vehicle for base shuttle bus operations and for transporting large aircraft crews together with their related flight gear. Buses are also used to transport dependent school children and large groups of personnel during military exercises. In USAFE and PACAF, buses are procured with kits which can convert the regular bus to an ambulance bus, negating the requirement for a separate bus for MED EVAC operations. The total Air Force FY98 procurement requirement is 1,175 against an inventory objective of 2,228.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	3	161,265	4	209,856
FY97	17	966,529	0	0
FY98	0	0	2	112,240
FY99	21	1,186,583	1	57,357

P-1 SHOPP LIST ITEM NO. 3		PAGE NO. 10
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION					MULTIPLE - SEE P-5A.			
OPAF/VEHICULAR EQUIPMENT		BUSES											
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

16 PASSENGER (BPAC 1243)	A	7	36,399	255	9	37140	334	1	37939	38	5	38775	194
16 PASSENGER JAPAN (BPAC 1244)	A							2	43159	86	2	44110	88
23 PASSENGER (BPAC 1245)	A	1	41124	41				1	41931	42			
28 PASSENGER TRANSIT (BPAC 124A)	A	15	52464	787	34	53618	1823	5	54772	274	36	55979	2015
44 PASSENGER INTRACITY (BPAC 124K)	A	2	72573	145	1	73887	74	2	75766	152			
44 PASSENGER TRANSIT (BPAC 124L)	A	19	53755	1021	47	54938	2582	6	56120	337	14	57357	803
TOTALS		44		2249	91		4813	17		929	57		3100

P-1 SHOPP LIST ITEM NO. 3		PAGE NO. 11	Exhibit P-5 Weapon System Cost Analysis
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## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE BUSES						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>16 PASSENGER (BPAC 1243)</b>											
FY96	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMCWR-ALC	MAR 96	JUL 96	7	36,399				
FY97	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMCWR-ALC	MAR 97	JUL 97	9	37,140	YES	NO		
FY98	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMCWR-ALC	MAR 98	JUL 98	1	37,939	YES	NO		
FY99	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMCWR-ALC	MAR 99	JUL 99	5	38,775	YES	NO		
<b>16 PASSENGER JAPAN (BPAC 1244)</b>											
FY98 *	PACAF (UNKNOWN)	FCA/JPN	AFMCWR-ALC	APR 98	OCT 98	2	43,159	YES	NO		
FY99	PACAF (UNKNOWN)	FCA/JPN	AFMCWR-ALC	APR 99	OCT 99	2	44,110	YES	NO		
<b>D. REMARKS</b>											
* FIRST TIME BUY IN JAPAN.											
			P-1 SHOPP LIST ITEM NO. 3	PAGE NO. 12	Exhibit P-5a Procurement History and Planning						

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT										C. P-1 ITEM NOMENCLATURE BUSES	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
23 PASSENGER (BPAC 1245)											
FY96	GSA (ELDORADO) SALINA, KS	ID/IQ	AFMC/WR-ALC	JUN 96	OCT 96	1	41,124				
FY98	GSA (ELDORADO) SALINAS, KS	ID/IQ	AFMC/WR-ALC	JUN 98	OCT 98	1	41,931	YES	NO		
28 PASSENGER TRANSIT (BPAC 124A)											
FY96	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 96	JUL 96	15	52,464				
FY97	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 97	JUL 97	34	53,618	YES	NO		
FY98	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 98	JUL 98	5	54,772	YES	NO		
FY99	GSA (BLUEBIRD) FORT VALLEY, GA	ID/IQ	AFMC/WR-ALC	MAR 99	JUL 99	36	55,979	YES	NO		
D. REMARKS											
• FIRST TIME BUY IN JAPAN.											
P-1 SHOPP LIST ITEM NO. 3				PAGE NO. 13		Exhibit P-5a Procurement History and Planning					

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE BUSES						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
44 PASSENGER INTRACITY (BPAC 124K)											
FY96	GSA (THOMAS BUILT) POINT, NC	ID/Q	AFMC/WR-ALC	MAY 96	SEP 96	2	72,573				
FY97	GSA (THOMAS BUILT) HIGH POINT, NC	ID/Q	AFMC/WR-ALC	MAY 97	SEP 97	1	73,887	YES	NO		
FY98	GSA (THOMAS BUILT) HIGH POINT, NC	ID/Q	AFMC/WR-ALC	MAY 98	SEP 98	2	75,766	YES	NO		
44 PASSENGER TRANSIT (BPAC 124L)											
FY96	GSA (BLUEBIRD) FORT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 96	JUL 96	19	53,755				
FY97	GSA (BLUEBIRD) FORT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 97	JUL 97	47	54,938	YES	NO		
FY98	GSA (BLUEBIRD) FORT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 98	JUL 98	6	56,120	YES	NO		
FY99	GSA (BLUEBIRD) FORT VALLEY, GA	ID/Q	AFMC/WR-ALC	MAR 99	JUL 99	14	57,357	YES	NO		
D. REMARKS											
• FIRST TIME BUY IN JAPAN.											
P-1 SHOPP LIST ITEM NO. 3					PAGE NO. 14		Exhibit P-5a Procurement History and Planning				

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		P-1 ITEM NOMENCLATURE				AMBULANCES	
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
0	3	3	3	15	34	59	5
COST (In Mill)	\$0.238	\$0.247	\$0.252	\$1.130	\$2.550	\$4.599	\$0.340

1. This line item includes both bus ambulances and modular ambulances. Bus ambulances are used in Medical Evacuation (MED EVAC) operations and are capable of transporting 12 litter patients from aircraft to hospitals. Modular ambulances are standard commercial ambulances in both two and four wheel drive configurations. They also perform MED EVAC as well as movement of patients under field conditions, aircraft crash rescue operations, and both emergency and routine transportation of patients to and from medical facilities and hospitals. Modular ambulances have eight cylinder diesel engines, automatic transmissions, power steering and brakes, and medical life support systems. Capacity is three litter patients or eight seated patients. The total Air Force FY98 procurement requirement is 816 against an inventory objective of 1297.

2. ANG/AFR: N/A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT						C. P-1 ITEM NOMENCLATURE AMBULANCES				A. DATE FEBRUARY 1997	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### BUS AMBULANCE (BPAC 1359)

FY95	GSA (WHEELED COACH) WINTER PARK, FL	ID/IQ	AFMC/WR-ALC	FEB 95	MAY 95	1	76,957				
FY97	GSA (WHEELED COACH) WINTER PARK, FL	ID/IQ	AFMC/WR-ALC	FEB 97	MAY 97	3	79,483	YES	NO		
FY98	GSA (UNKNOWN)	ID/IQ	AFMC/WR-ALC	FEB 98	MAY 98	3	82,190	YES	NO		
FY99	GSA (UNKNOWN)	ID/IQ	AFMC/WR-ALC	FEB 99	MAY 99	3	83,960	YES	NO		

### D. REMARKS

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# UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								DATE	
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		LAW ENFORCEMENT VEHICLE								DATE	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		DATE	
QUANTITY	85	199	80	137	23	17	19	0		DATE	
COST (In Mil)	\$1,409	\$3,291	\$1,603	\$2,871	\$0,457	\$0,312	\$0,357	0		DATE	

1. This is a commercial, gasoline engine powered sedan equipped with a heavy duty component package for law enforcement. It is used in security and law enforcement functions. This is a high mileage vehicle with a three year life expectancy. The total Air Force FY98 procurement requirement is 512 against an inventory objective of 799.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	7	115,248
FY97	0	0	15	247,680
FY98	0	0	0	0
FY99	0	0	5	117,875

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/CITY/STATE LOCATION			D. DATE FEBRUARY 1997
OPAF/VEHICULAR EQUIPMENT			LAW ENFORCEMENT VEHICLE			MULTIPLE - SEE P5A			
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
US (BPAC 1601)	A	80	16494	1320	198	16512	3269	41	17220
JAPAN (BPAC 1602)	A				1	21523	22	4	22492
ITALY (BPAC 1605)	A	3	18885	57					
TURKEY (BPAC 1606)	A	2	16150	32					
US BI-FUEL CNG (BPAC 1607)	A							35	23067
TOTALS		85		1409	199		3291	80	1603
								60	17599
								77	23575
								137	1815
									2871

P-1 SHOPP LIST ITEM NO.			PAGE NO.		Exhibit P-5 Weapon System Cost Analysis				
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT			C. P-1 ITEM NOMENCLATURE LAW ENFORCEMENT VEHICLE							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

US (BPAC 1601)										
FY96	GSA (CHEVROLET) WARREN, MI	MIPR	AFMC/WR-ALC	FEB 96	JUN 96	78	16,494			
FY96	GSA (GMC) WARREN, MI	MIPR	AFMC/WR-ALC	DEC 96	JAN 97	2	16,494			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	198	16,512	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUN 98	41	17,220	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUN 99	60	17,599	YES	NO	
JAPAN (BPAC 1602)										
FY95	SAF (SUBARU) JAPAN	FCA/JPN	AFMC/WR-ALC	SEP 95	APR 96	2	21,060			
FY97	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	NOV 97	1	21,523	YES	NO	
FY98	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	NOV 98	4	22,492	YES	NO	

D. REMARKS	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
* FIRST TIME BUY OF BI-FUEL CNG LAW ENFORCEMENT SEDANS. NOTE: FCA = FUND CITE AUTHORIZATION.	5	19	

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT										C. P-1 ITEM NOMENCLATURE LAW ENFORCEMENT VEHICLE	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
ITALY (BPAC 1605)											
FY96	16AF (FIAT) ITALY	FCA/ITALY	AFMC/WR-ALC	AUG 96	DEC 96	3	18,885				
TURKEY (BPAC 1606)											
FY96	16AF (SEHOGLU) TURKEY	FCA/TURKEY	AFMC/WR-ALC	JUL 96	JAN 97	2	16,150				
US BI-FUEL CNG (BPAC 1607)											
FY98*	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	AUG 98	35	23,067	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	AUG 99	77	23,575	YES	NO		

D. REMARKS  
\* FIRST TIME BUY OF BI-FUEL CNG LAW ENFORCEMENT SEDANS.  
NOTE: FCA = FUND CITE AUTHORIZATION.

Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		P-1 ITEM NOMENCLATURE				ARMORED SEDAN	
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
1	1	1	1	1	1	1	1
QUANTITY							
COST (In Mil)	\$0.219	\$0.227	\$0.232	\$0.239	\$0.246	\$0.255	\$0.262
							\$0.269

1. The Air Force Office of Special Investigations (AFOSI), has responsibility for non-tactical Fully Armored Vehicles (FAVs). The FAVs are used during protective service operations to transport permanent party, visiting senior US military and civilian personnel within designated high terrorist threat areas (i.e., in-theater USAF and NATO command officials, the Secretary of Defense, Secretary of the Air Force, Chief of Staff of the Air Force, and as augment support of the President of the United States).

2. Terrorist threats are investigated and validated by US/foreign, federal and military (e.g., CIA and DoD) counter-intelligence anti-terrorism experts. Threat assessments and vulnerability surveys are prepared to determine FAV requirements.

3. Seven of the FAVs on hand have exceeded their life expectancy of eight years or 72,000 miles. Factory reconditioning of such things as engines, drive trains, and major components by Mercedes-Benz, has extended vehicle life by 4 - 5 years. However, the protective integrity of both the polycarbonate transparent and metal armor cannot be guaranteed by the manufacturer for an additional reconditioning. Therefore, it is neither economically feasible nor safe to upgrade pre-1987 FAVs a second time.

4. Currently, 8 of AFOSI's 13 FAVs (1987 or newer) meet current DoD FAV ballistic standards. New technology introduced during the last 5 years has significantly increased ballistic defeat capability and overall safety of vehicle occupants through use of enhanced armoring materials/techniques (e.g., polycarbonate transparent armor and production/assembly). Additional improvements have been made on anti-lock braking systems, driver/passenger restraint devices, and side impact devices.

5. FY98 funding continues the USAF FAV replacement program. A replacement buy is essential to ensure all principals are provided optimum protection against terrorist activities. The total Air Force FY98 procurement requirement is 1 against an inventory objective of 10.

6. Unit Cost: \$232,340.

7. ANG/AFR: N/A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE ARMORED SEDAN						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

## Armored Sedan FRG (BPAC 1702)

FY96	OSI (MERCEDES-BENZ, GERMANY)	FCA/FRG	AFMC/WR-ALC	AUG 96	APR 97	1	218,504			
FY97	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JUN 97	FEB 98	1	227,339	YES	NO	
FY98	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JAN 98	SEP 98	1	232,340	YES	NO	
FY99	OSI (UNKNOWN)	FCA/FRG	AFMC/WR-ALC	JAN 99	SEP 99	1	239,310	YES	NO	

## D. REMARKS

NOTE: FCA = Fund Cite Authorization.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT					P-1 ITEM NOMENCLATURE					
					TRUCK, CARGO-UTILITY, 3/4T, 4X4					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	111	317	154	91	128	146	164	444		
COST (In Mill)	\$2.821	\$8.267	\$4.414	\$2.700	\$3.845	\$4.208	\$4.822	\$13.347		

1. This is a commercial four-door, six-passenger cargo truck which equips our forces with a four-wheel-drive, automatic transmission vehicle to permit crews and cargo to travel together to off-highway sites. This truck is used by security police in a force protection role. It is also used in direct operational support of strategic weapons systems (silo crew changes), and fighter and bomber aircraft crews. Four-wheel-drive capability is critical to off-highway winter operations to isolated missile, communications, weather, and radar sites. It is also used by civil engineering crews in support of these locations; the six passenger capacity permits the use of one vehicle instead of two for trips to sites that are up to 150 miles from a base. The total Air Force FY98 procurement requirement is 2,077 against an inventory objective of 3,952.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	46	1,180,820	6	154,020
FY97	157	3,320,707	19	401,869
FY98	60	1,617,300	8	215,640
FY99	21	578,256	2	55,072

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## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE			
OPAF/VEHICULAR EQUIPMENT		TRUCK, CARGO-UTILITY, 3/4T, 4X4		MULTIPLE - See P-5A.		FEBRUARY 1997			
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

US (BPAC 2061)	A	108	25634	2768	311	26234	8159	106	26955	2857	49	27536	1349
JAPAN (BPAC 2062)	A	3	17670	53	6	18059	108	4	18466	74	6	18863	113
US BI-FUEL CNG (BPAC 2064)	A							44	33696	1483	35	34438	1205
US LIQUID PROPANE GAS (BPAC 2065)	A										1	32668	33
TOTALS		111		2821	317		8267	154		4414	91		2700

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT						C. P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 3/4T, 4X4				A. DATE FEBRUARY 1997	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

US (BPAC 2061)											
FY96	GSA (CARTER CHEVY) FLINT, MI	MIPR	AFMC/WR-ALC	SEP 96	APR 97	108	25,634				
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	311	26,234	YES	NO		
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	SEP 98	106	26,955	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	SEP 99	49	27,536	YES	NO		
JAPAN (BPAC 2062)											
FY96	PACAF (TOYOTA) JAPAN	MIPR/JAPAN	AFMC/WR-ALC	SEP 96	JAN 97	3	17,670				
FY97	PACAF (UNKNOWN)	MIPR/JAPAN	AFMC/WR-ALC	JUL 97	NOV 97	6	18,059	YES	NO		
FY98	PACAF (UNKNOWN)	MIPR/JAPAN	AFMC/WR-ALC	JUL 98	NOV 98	4	18,466	YES	NO		
FY99	PACAF (UNKNOWN)	MIPR/JAPAN	AFMC/WR-ALC	JUL 99	NOV 99	6	18,863	YES	NO		

D. REMARKS # FIRST TIME BUY OF BI-FUEL ONG 3/4T 4X4 CARGO TRUCK. @ FIRST TIME BUY OF LIQUID PROPANE 3/4T 4X4 CARGO TRUCK. NOTE: FCA = Fund Cite Authorization.											
P-1 SHOPP LIST ITEM NO. 7						PAGE NO. 25		Exhibit P-5a Procurement History and Planning			

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## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 3/4T, 4X4								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US BI-FUEL CNG (BPAC 2064)										
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	SEP 98	44	33,696	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	SEP 99	35	34,438	YES	NO	
US LIQUID PROPANE (BPAC 2065)										
FY99 @	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	NOV 99	1	32,668	YES	NO	

  

D. REMARKS # FIRST TIME BUY OF BI-FUEL CNG 3/4T 4X4 CARGO TRUCK. @ FIRST TIME BUY OF LIQUID PROPANE 3/4T 4X4 CARGO TRUCK. NOTE: FCA = Fund Cite Authorization.	P-1 SHOPP LIST ITEM NO. 7		PAGE NO. 26	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	257	106	237	181	116	380	145
COST (In Mil)	0	\$5.724	\$2.575	\$5.888	\$4.642	\$2.984	\$9.989	\$3.897

1. This is a commercial two wheel drive cargo truck with four doors and two full width seats which provide for a crew of six passengers. This vehicle has a six foot pickup body with a tailgate and an automatic transmission. The Air Force uses this truck to transport personnel and light cargo. The six passenger feature enables the work crew and their material to travel together. It is used in direct support of weapons systems such as missiles, strategic aircraft, and tactical fighter aircraft. This vehicle is generally operated on a base where off-highway, four wheel drive capability is not required. The total Air Force FY98 procurement requirement is 1,704 against an inventory objective of 3,506.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	13	308,789	0	0
FY98	0	0	8	192,784
FY99	41	1,009,297	2	49,234

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE	
OPAF/VEHICULAR EQUIPMENT		TRUCK, CARGO-UTILITY, 1/2T, 4X2			MULTIPLE - See P-5A.			FEBRUARY 1997	
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
US (BPAC 2071)	A	174	23753	4133	90	24098	2169	202	24617
FRG (BPAC 2072)	A	39	18525	722					
ITALY (BPAC 2073)	A	39	20429	797					
JAPAN (BPAC 2074)	A	2	15800	32	4	16286	65	8	16645
US BI-FUEL CNG (BPAC 2076)	A				12	28385	341	26	29011
KOREA (BPAC 2077)	A	3	13234	40				1	27945
US LIQUID PROPANE (BPAC 2078)	A								
TOTALS		257		5724	106		2575	237	
									5888

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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT										C. P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

US (BPAC 2071)	FY95	GSA (HENDRIX GMC) FLINT, MI	MIPR	AFMC/WR-ALC	SEP 95	JAN 96	16	22,564			
	FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	174	23,753	YES	NO	
	FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUN 98	90	24,098	YES	NO	
	FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUN 99	202	24,617	YES	NO	
FRG (BPAC 2072)	FY90	ARMY (VW) GERMANY	MIPR	AFMC/WR-ALC	APR 90	SEP 90	65	15,677			
	FY97	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	SEP 97	39	18,525	YES	NO	

D. REMARKS										Exhibit P-5a Procurement History and Planning	
# First time buy of 1/2T 4x2 Cargo-Utility Trucks in this alternative fuel configuration. @ First time buy in Korea. Price estimate is based on Japan price of same item.										PAGE NO. 29	
NOTE: FCA = Fund Cite Authorization.										P-1 SHOPP LIST ITEM NO. 8	

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## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>ITALY (BPAC 2073)</b>											
FY89	17AF (FIAT) ITALY	C/FP	AFMC/WR-ALC	SEP 89	MAR 90	7	16,798				
FY97	17AF (UNKNOWN) ITALY	MIPR/ITALY	AFMC/WR-ALC	APR 97	OCT 97	39	20,429	YES	NO		
<b>JAPAN (BPAC 2074)</b>											
FY95	PACAF (TOYOTA) JAPAN	FCA/JPN	AFMC/WR-ALC	JUN 95	AUG 95	2	12,814				
FY97	PACAF (UNKNOWN)	MIPR/JPN	AFMC/WR-ALC	SEP 97	JAN 98	2	15,800	YES	NO		
FY98	PACAF (UNKNOWN)	MIPR/JPN	AFMC/WR-ALC	SEP 98	JAN 99	4	16,286	YES	NO		
FY99	PACAF (UNKNOWN)	MIPR/JPN	AFMC/WR-ALC	SEP 99	JAN 00	8	16,645	YES	NO		

## D. REMARKS

# First time buy of 1/2T 4x2 Cargo-Utility Trucks in this alternative fuel configuration.  
 @ First time buy in Korea. Price estimate is based on Japan price of same item.

NOTE: FCA = Fund Cite Authorization.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)					A. DATE FEBRUARY 1997
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B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE TRUCK, CARGO-UTILITY, 1/2T, 4X2					
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

US BI-FUEL CNG (BPAC 2076)	FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	AUG 98	12	28,385	YES	NO
	FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	AUG 99	26	29,011	YES	NO
	KOREA (BPAC 2077)									
US LIQUID PROPANE (BPAC 2078)	FY97 @	PACAF (UNKNOWN) KOREA	FCA/KOREA	AFMC/WR-ALC	JUL 97	SEP 97	3	13,234	YES	NO
	FY99 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	NOV 99	1	27,945	YES	NO

D. REMARKS		P-1 SHOPP LIST ITEM NO. 8	PAGE NO. 31	Exhibit P-5a Procurement History and Planning
# First time buy of 1/2T 4x2 Cargo-Utility Trucks in this alternative fuel configuration.				
② First time buy in Korea. Price estimate is based on Japan price of same item.				
NOTE: FCA = Fund Cite Authorization.				

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		TRUCK, PICKUP, 1/2T, 4X2					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
	187	572	292	326	114	323	1175
COST (In Mil)	\$2.575	\$7.702	\$4.006	\$4.590	\$1.877	\$4.860	\$18.051
							\$1.003

1. This is a standard 1/2 ton pickup truck with a six cylinder engine, two-wheel drive, and automatic transmission. It is the basic light cargo delivery and personnel transport vehicle in the Air Force inventory. This vehicle is used as an expedite/light cargo vehicle by Supply, Security Police, Hospital, and virtually every flight line unit. The total Air Force FY98 procurement requirement is 4,211 against an inventory objective of 5,975.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	81	1,116,942	1	13,352
FY97	173	2,359,547	0	0
FY98	185	2,600,545	0	0
FY99	59	847,240	10	205,470

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE				
OPAF/VEHICULAR EQUIPMENT		TRUCK, PICKUP, 1/2T, 4X2			MULTIPLE - See P-5A			FEBRUARY 1997				
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

US (BPAC 2111)	A	124	13352	1656	513	13639	6997	259	14057	3641	271	14360	3892
FRG (BPAC 2112)	A	20	15991	320	25	16343	409						
ITALY (BPAC 2114)	A	21	8311	175	25	8494	212	26	8681	226	37	8868	328
KOREA (BPAC 2117)	A				9	9353	84						
US COMPRESSED NATURAL GAS BI FUEL (BPAC 2118)	A	22	19257	424				6	20104	121	18	20547	370
US LIQUID PROPANE (BPAC 211A)	A							1	17633	18			
TOTALS		187		2575	572		7702	292		4006	326		4590

P-1 SHOPP LIST ITEM NO. 9		PAGE NO. 33	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK, PICKUP, 1/2T, 4X2						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>US (BPAC 2111)</b>											
FY96	GSA (GRANDE FORD) AUSTIN, TX	MIPR	AFMC/WR-ALC	SEP 96	MAR 97	124	13352				
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	AUG 97	513	13,639	YES	NO		
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	AUG 98	259	14,057	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	AUG 99	271	14,360	YES	NO		
<b>FRG (BPAC 2112)</b>											
FY96	ARMY (VW) GERMANY	MIPR	AFMC/WR-ALC	JUN 96	SEP 96	20	15,991				
FY97	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	JUN 97	SEP 97	25	16,343	YES	NO		
<b>D. REMARKS</b>											
* FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF. * FIRST TIME BUY OF 1/2T PICKUP TRUCK IN LIQUID PROPANE CONFIGURATION.											
					P-1 SHOPP LIST ITEM NO. 9		PAGE NO. 34		Exhibit P-5a Procurement History and Planning		

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE TRUCK, PICKUP, 1/2T, 4X2								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ITALY (BPAC 2114)										
FY96	AF (FIAT) ITALY	MIPR	AFMC/WR-ALC	AUG 96	FEB 97	21	8311			
FY97	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 97	FEB 98	25	8494	YES	NO	
FY98	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 98	FEB 99	26	8681	YES	NO	
FY99	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 99	FEB 00	37	8868	YES	NO	
KOREA (BPAC 2117)										
FY97 @	AF (UNKNOWN)	MIPR	AFMC/WR-ALC	JUN 97	DEC 97	9	9,353	YES	NO	
D. REMARKS @ FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF. # FIRST TIME BUY OF 1/2T PICKUP TRUCK IN LIQUID PROPANE CONFIGURATION.										
			P-1 SHOPP LIST ITEM NO. 9	PAGE NO. 35	Exhibit P-5a Procurement History and Planning					

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE TRUCK, PICKUP, 1/2T, 4X2								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
US COMPRESSED NATURAL GAS BI-FUEL (BPAC 2118)										
FY96	GSA (FORD) WAYNE, MI	MIPR	AFMC/WR-ALC	APR 96	SEP 96	22	19,257			
FY98	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	SEP 98	6	20,104	YES	NO	
FY99	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 99	SEP 99	18	20,547	YES	NO	
US LIQUID PROPANE (BPAC 211A)										
FY98 #	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 98	SEP 98	1	17,633	YES	NO	

  

D. REMARKS		P-1 SHOPP LIST ITEM NO. 9		PAGE NO. 36	Exhibit P-5a Procurement History and Planning
@ FIRST TIME BUY IN KOREA. UNIT PRICE ESTIMATE PROVIDED BY PACAF. # FIRST TIME BUY OF 1/2T PICKUP TRUCK IN LIQUID PROPANE CONFIGURATION.					

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE						
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		P-1 ITEM NOMENCLATURE TRUCK, PICKUP, COMPACT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	433	556	206	165	140	130	217	809
COST (In Mil)	\$4.913	\$6.461	\$2.681	\$2.345	\$1.961	\$1.650	\$2.819	\$10.739

1. This is a commercial, 4x2 compact pickup truck, used by virtually all base activities to transport light cargo and personnel. It is part of an Air Force program to selectively downsize to more fuel efficient vehicles without causing an adverse mission impact. The total Air Force FY98 procurement requirement is 3,184 against an inventory objective of 6,288.

## 2. ANG/AFR:

	ANG	AFR
	QTY DOLLARS	QTY DOLLARS
FY96	5 56,905	5 56,905
FY97	34 395,454	55 639,705
FY98	76 904,020	23 273,585
FY99	49 595,693	7 85,099

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997				
OPAF/VEHICULAR EQUIPMENT			TRUCK, PICKUP, COMPACT			MULTIPLE - SEE P5A							
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

US (BPAC 2121)	A	414	11381	4712	547	11631	6362	140	11895	1665	79	12157	960
JAPAN (BPAC 2122)	A	19	10579	201	5	10812	54	10	11044	110	7	11288	79
US COMPRESSED NATURAL GAS (BPAC 2124)	A							56	16178	906	79	16534	1306
KOREA (BPAC 2125)	A				4	11250	45						
TOTALS		433		4913	556		6461	206		2681	165		2345

P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5 Weapon System Cost Analysis	
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK, PICKUP, COMPACT						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>4X2 US (BPAC 2121)</b>											
FY96	GSA (CHRYSLER) WARREN, MI	OPTION	AFMC/WR-ALC	JAN 96	JUN 96	414	11,381				
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUL 97	547	11,631	YES	NO		
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUL 98	140	11,895	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUL 99	79	12,157	YES	NO		
<b>4X2 JAPAN (BPAC 2122)</b>											
FY96	NAVY (TOYOTA) JAPAN	MIPR	AFMC/WR-ALC	AUG 96	DEC 96	19	10,579				
FY97	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 97	DEC 97	5	10,812	YES	NO		
FY98	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 98	DEC 98	10	11,044	YES	NO		
FY99	NAVY (UNKNOWN)	MIPR	AFMC/WR-ALC	AUG 99	DEC 99	7	11,288	YES	NO		
<b>D. REMARKS</b>											
# FIRST TIME BUY IN CNG CONFIGURATION.											
* FIRST TIME BUY IN KOREA. PRICE ESTIMATE IS BASED ON JAPAN PRICE FOR SAME ITEM.											
NOTE: FCA = FUND CITE AUTHORIZATION.											
					P-1 SHOPP LIST ITEM NO. 10	PAGE NO. 39		Exhibit P-5a Procurement History and Planning			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK, PICKUP, COMPACT						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
US COMPRESSED NATURAL GAS (BPAC 2124)											
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUL 98	56	16,178	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUL 99	79	16,534	YES	NO		
KOREA (BPAC 2125)											
FY97 @	PACAF (UNKNOWN)	FCA/KOREA	AFMC/WR-ALC	JUN 97	SEP 97	4	11,250	YES	NO		

D. REMARKS # FIRST TIME BUY IN CNG CONFIGURATION. @ FIRST TIME BUY IN KOREA. PRICE ESTIMATE IS BASED ON JAPAN PRICE FOR SAME ITEM.	
NOTE: FCA = FUND CITE AUTHORIZATION.	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT					P-1 ITEM NOMENCLATURE TRUCK, MULTI-STOP, 1T, 4X2						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	164	419	301	378	347	88	61	606			
COST (In Mil)	\$3,689	\$11,104	\$8,219	\$10,559	\$9,866	\$2,565	\$1,884	\$18,356			

1. This family group consists of commercial panel trucks with sliding front doors, double rear doors, and delivery vans with cut-off cabs and full width rear doors with windows. Both trucks are two wheel drive, automatic transmission, and are powered by a diesel engine. They are used for light cargo transport, mobile post offices, and air crew personnel transport. They are used extensively on the flightline to support aircraft maintenance and by civil engineers in base and airfield maintenance. The total Air Force FY98 procurement requirement is 4,968 against an inventory objective of 6,854.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	5	112,545
FY97	37	846,523	32	732,128
FY98	42	1,140,048	23	624,312
FY99	24	665,808	47	1,303,874

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## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE			
OPAF/VEHICULAR EQUIPMENT		TRUCK, MULTI-STOP, 1T, 4X2		MULTIPLE - SEE P-5A		FEBRUARY 1997			
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

MULTI-STOP 1T US (BPAC 2161)	A	161	22509	3624	412	26560	10943	1	32166	32	1	32859	33
DELIVERY VAN US (BPAC 2165)	A	161	22509	3624	412	26560	10943	290	27144	7872	362	27742	10043
DELIVERY VAN US BI-FUEL ONG2 (BPAC 2168)	A							10	31503	315	15	32181	483
DELIVERY VAN JAPAN (BPAC 216C)	A	3	21750	65	7	23000	161						
TOTALS		164	3689	419	11104	301	8219	378					10559

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997					
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT										C. P-1 ITEM NOMENCLATURE TRUCK, MULTI-STOP, 1T, 4X2					
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL					

MULTI-STOP 1T US (BPAC 2161)													
FY95	GSA (CARTER CHEVY) OKARCHE, OK	MIPR	AFMC/WR-ALC	SEP 95	JUL 96	1	30,118						
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	DEC 98	1	32,166	YES	NO				
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	DEC 99	1	32,859	YES	NO				
DELIVERY VAN US (BPAC 2165)													
FY95	GSA (CARTER) UNION CITY, IN	OPTION	AFMC/WR-ALC	FEB 95	SEP 95	435	21,689						
FY96	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	SEP 97	161	22,509	YES	NO				
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	DEC 97	412	26,560	YES	NO				
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	SEP 98	290	27,144	YES	NO				
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	SEP 99	362	27,742	YES	NO				

D. REMARKS  
 • FIRST BUY OF CNG2 BI-FUEL DELIVERY VAN.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE FEBRUARY 1997		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE TRUCK, MULTI-STOP, 1T, 4X2						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

DELIVERY VAN US COMPRESSED  
NATURAL GAS 2 BI-FUEL (BPAC 2168)

FY98 @

GSA (UNKNOWN)

MIPR

AFMC/WR-ALC

APR 98

OCT 98

10

31,503

YES

NO

FY99

GSA (UNKNOWN)

MIPR

AFMC/WR-ALC

APR 99

OCT 99

15

32,181

YES

NO

## DELIVERY VAN JAPAN (BPAC 216C)

FY96

NAVY (TOYOTA)  
JAPAN

MIPR

AFMC/WR-ALC

JUL 96

SEP 96

3

21,750

FY97

NAVY (UNKNOWN)

MIPR

AFMC/WR-ALC

JUL 97

SEP 97

7

23,000

YES

NO

## D. REMARKS

① FIRST BUY OF CNG2 BI-FUEL DELIVERY VAN.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								TRUCK CARRYALL	
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	145	150	186	206	207	121	347		
COST (In Mil)		0	\$2,814	\$3,548	\$4,286	\$4,962	\$4,475	\$2,984	\$8,117		

1. This vehicle family is defined as commercial carryalls, capable of carrying a minimum of seven passengers (including driver). It weighs between 4,700 and 8,600 pounds Gross Vehicle Weight, with a minimum of three windows on each side and double side and rear doors. The trucks are used by: Communications, Weather, and Radar Site personnel as a combination cargo and group personnel carrier; medical repair teams to transport test and repair equipment to hospitals and medical facilities; missile and aircraft alert crews; and in some instances as airport transportation for personnel and their baggage. The truck is primarily purchased with an automatic transmission. All-terrain four wheel drive vehicles are also bought for use at remote sites. The total Air Force FY98 procurement requirement is 1,828 against an inventory objective of 3,882.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	45	838,419	0	0
FY98	74	1,399,454	0	0
FY99	41	855,032	0	0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)												D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION									
OPAF/VEHICULAR EQUIPMENT			TRUCK CARRYALL				MULTIPLE - SEE P-5A.									
Weapon System Cost Elements			IDENT CODE		FY 1996			FY 1997			FY 1998			FY 1999		
					QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
US 9 PASSENGER 4X2 (BPAC 2191)			A					50	17208	860	6	17797	107	73	18180	1327
JPN 9 PASSENGER 4X2 (BPAC 2195)			A								2	20398	41	2	20847	42
US 9 PASSENGER 4X4 (BPAC 2196)			A				15	27070	406	29	27856	808	26	28470	740	
US 9 PASSENGER 4X2 (BPAC 2198)			A				8	27818	223	2	28196	56				
US 15 PASSENGER 4X2 (BPAC 219A)			A				15	19701	296	9	20125	181	18	20569	370	
US 15 PASSENGER 4X2 BI- FUEL (BPAC 219E)			A								1	24396	24	7	24934	175
US 7 PASS 4X2 (BPAC 219H)			A					52	17200	894	63	17671	1113	23	18060	415
US 15 PASSENGER 4X2 CNG (BPAC 219Q)			A				5	27093	135							
US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S)			A								6	24014	144	1	24543	25

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE		FEBRUARY 1997			
OPAF/VEHICULAR EQUIPMENT		TRUCK CARRYALL		MULTIPLE - SEE P-5A.							
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		

US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T)	A						5	22800	114	8	23302	186
US LOW PROFILE 4X2 BI-FUEL (BPAC 219U)	A						14	34198	479	19	34952	664
US 9 PASSENGER 4X4 BI-FUEL (BPAC 219V)	A						11	37181	409	9	38000	342
US 9 PASSENGER 4X4 LIQUID PROPANE (BPAC 219W)	A						2	35764	72			
TOTALS							145	2814	3548	186		4286

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# UNCLASSIFIED

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE TRUCK CARRYALL								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	IF YES, WHEN AVAIL	

### US 9 PASSENGER 4X2 (BPAC 2191)

FY95	GSA (FORD) LORAIN, OH	OPTION	AFMC/WR-ALC	MAR 95	JUN 95	14	16,664						
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	JUN 97	50	17,208	YES	NO				
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 98	JUN 98	6	17,797	YES	NO				
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 99	JUN 99	73	18,180	YES	NO				

### JPN 9 PASSENGER 4X2 (BPAC 2195)

FY93	PACAF (NISSAN) JAPAN	MIPR	AFMC/WR-ALC	DEC 93	FEB 94	10	14,333						
FY98	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	DEC 97	FEB 98	2	20,398	YES	NO				
FY99	PACAF (UNKNOWN)	MIPR	AFMC/WR-ALC	DEC 98	FEB 99	2	20,847	YES	NO				

### D. REMARKS

- \* FUNDED IN ITEMS LESS, P-1 LINE NO. 22.
- # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.

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# UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE TRUCK CARRYALL							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>US 9 PASSENGER 4X4 (BPAC 2196)</b>											
FY96 *	GSA (GMC) JANESVILLE, WI	OPTION	AFMC/WR-ALC	MAR 96	NOV 96	11	26,682				
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	OCT 97	15	27,070	YES	NO		
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	OCT 98	29	27,856	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	OCT 99	26	28,470	YES	NO		
<b>US 9 PASSENGER 4X2 (BPAC 2198)</b>											
FY96 *	GSA (CHEVROLET) JANESVILLE, WI	OPTION	AFMC/WR-ALC	MAR 96	NOV 96	4	27,008				
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 97	NOV 97	8	27,818	YES	NO		
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	MAR 98	NOV 98	2	28,196	YES	NO		
<b>D. REMARKS</b>											
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22. # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.											
				P-1 SHOPP LIST ITEM NO. 12		PAGE NO. 49		Exhibit P-5a Procurement History and Planning			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE TRUCK CARRYALL							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
US 15 PASSENGER 4X2 (BPAC 219A)											
FY96	GSA (CHRYSLER) WINDSOR, ON, CD	OPTION	AFMCWR-ALC	MAR 96	JUN 96	9	19,277				
FY97	GSA (UNKNOWN)	OPTION	AFMCWR-ALC	FEB 97	MAY 97	15	19,701	YES	NO		
FY98	GSA (UNKNOWN)	OPTION	AFMCWR-ALC	FEB 98	MAY 98	9	20,125	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMCWR-ALC	FEB 99	MAY 99	18	20,569	YES	NO		
US 15 PASSENGER 4X2 BI-FUEL (BPAC 219E)											
FY96	GSA (FORD) LORAIN, OH	OPTION	AFMCWR-ALC	APR 96	SEP 96	4	23,268				
FY98	GSA (UNKNOWN)	OPTION	AFMCWR-ALC	APR 98	SEP 98	1	24,396	YES	NO		
FY99	GSA (UNKNOWN)	OPTION	AFMCWR-ALC	APR 99	SEP 99	7	24,934	YES	NO		
D. REMARKS											
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22. # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.											
				P-1 SHOPP LIST ITEM NO. 12		PAGE NO. 50		Exhibit P-5a Procurement History and Planning			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE TRUCK CARRYALL									
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

US 7 PASSENGER 4X2 (BPAC 219H)										
FY96*	GSA (CHEVROLET) OKARCHE, OK	OPTION	AFMC/WR-ALC	FEB 96	JUN 96	4	16,926			
FY97	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 97	JUN 97	52	17,200	YES	NO	
FY98	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 98	JUN 98	63	17,671	YES	NO	
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	FEB 99	JUN 99	23	18,060	YES	NO	
US 15 PASSENGER 4X2 CNG (BPAC 219Q)										
FY97	GSA (UNKNOWN)	MIPR	AFMC/WR-ALC	APR 97	JUN 97	5	27,093	YES	NO	

D. REMARKS * FUNDED IN ITEMS LESS, P-1 LINE NO. 22. # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.		P-1 SHOPP LIST ITEM NO. 12		PAGE NO. 51	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE TRUCK CARRYALL								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		
US 7 PASSENGER 4X2 BI-FUEL (BPAC 219S)												
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	6	24,014	YES	NO			
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	1	24,543	YES	NO			
US 9 PASSENGER 4X2 BI-FUEL (BPAC 219T)												
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	5	22,800	YES	NO			
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	8	23,302	YES	NO			
US LOW PROFILE 4X2 BI-FUEL (BPAC 219U)												
FY98 #	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	14	34,198	YES	NO			
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	19	34,952	YES	NO			
D. REMARKS • FUNDED IN ITEMS LESS, P-1 LINE NO. 22. # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.												
				P-1 SHOPP LIST ITEM NO. 12	PAGE NO. 52	Exhibit P-5a Procurement History and Planning						

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT										C. P-1 ITEM NOMENCLATURE TRUCK CARRYALL	
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

US 9 PASSENGER 4X4 BI-FUEL (BPAC 219V)	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	11	37,181	YES	NO	
FY98 #										
FY99	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 99	JUN 99	9	38,000	YES	NO	
US 9 PASSENGER 4X4 LIQUID PROPANE (BPAC 82219W)	GSA (UNKNOWN)	OPTION	AFMC/WR-ALC	APR 98	JUN 98	2	35,764	YES	NO	
FY98 #										

D. REMARKS		
* FUNDED IN ITEMS LESS, P-1 LINE NO. 22. # FIRST TIME BUY IN ALTERNATIVE FUEL CONFIGURATION.		
P-1 SHOPP LIST ITEM NO. 12	PAGE NO. 53	Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			DATE	
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		COMMERCIAL UTILITY CARGO VEHICLE			DATE	
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
0	0	43	109	66	86	66
0	0	\$1.451	\$3.749	\$2.319	\$3.074	\$2.431
COST (In Mil)						\$9.312

1. These are Commercial Utility Cargo Vehicles (CUCVs) which have some military design components, i.e., 24 volt electrical system and blackout lights. This makes it compatible with deployed US Army military designed vehicles. It shares the same power plant and transmission as the Humvee; therefore, it is suitable for Joint Service Contingencies in austere or semi-austere operating environments. This vehicle is used to transport both personnel and their equipment. The total Air Force FY98 procurement requirement is 2,106 against an inventory objective of 2,226.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	0	0	0	0
FY98	19	649,344	0	0
FY99	35	1,221,920	0	0

P-1 SHOPP LIST ITEM NO.		PAGE NO.	
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
OPAF/VEHICULAR EQUIPMENT		COMMERCIAL UTILITY CARGO VEHICLE			GMC, PONTIAC, MI						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

TRUCK, UTILITY, CUCV (BPAC 2201)	A						27	34176	923	62	34912	2165
TRUCK, CARGO, CUCV (BPAC 2202)	A						16	32997	528	47	33708	1584
TOTAL							43		1451	109		3749

P-1 SHOP LIST ITEM NO. 13		PAGE NO. 55	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE COMMERCIAL UTILITY CARGO VEHICLE						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>TRUCK, UTILITY, CUCV (BPAC 2201)</b>											
FY86	ARMY (GMC) PONTIAC, MI	MIPR	AFMC/WR-ALC	JUN 86	DEC 86	157	12,742				
FY98	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 98	SEP 98	27	34,176	YES	NO		
FY99	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 99	SEP 99	62	34,912	YES	NO		
<b>TRUCK, CARGO, CUCV (BPAC 2202)</b>											
FY86	ARMY (GMC) PONTIAC, MI	MIPR	AFMC/WR-ALC	JUN 86	OCT 86	88	13,229				
FY98	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 98	JUL 98	16	32,997	YES	NO		
FY99	ARMY (UNKNOWN)	MIPR	AFMC/WR-ALC	MAR 99	JUL 99	47	33,708	YES	NO		

## D. REMARKS

NOTE: BECAUSE IT HAS BEEN SO LONG SINCE THE LAST PROCUREMENT IN FY86, FY98 AND FY99 PRICE ESTIMATES ARE BASED ON CURRENT US ARMY/TACOM ESTIMATES.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE FAMILY OF MEDIUM TACTICAL VEHICLES					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	56	0	21	0	0	33	40	60
COST (In Mil)	\$5.900	0	\$2.594	0	0	\$4.518	\$4.625	\$9.414

1. The Family of Medium Tactical Vehicles (FMTV) is a complete series of trucks based on a common chassis and varied by payload and mission. The Light Medium Tactical Vehicle (LMTV) has a 2.5 ton capacity consisting of cargo and van models. The Medium Tactical Vehicle (MTV) has a 5 ton capacity, consisting of cargo, tractor, van, wrecker, tanker, and dump truck models. Commonality among variants significantly reduces operation and maintenance costs. FMTV, intended to replace obsolete and maintenance-intensive trucks currently in the fleet, provides all terrain vehicles for tactical and strategic deployments, tactical communications, tactical mobility, ammunition resupply, unit resupply, medical evacuation, and forces support.

2. The total Air Force FY98 procurement requirement is 1,022 against an inventory objective of 1,467.

3. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	56	5,900,000	0	0
FY97	0	0	0	0
FY98	18	1,907,946	0	0
FY99	0	0	0	0

P-1 SHOPP LIST ITEM NO.	PAGE NO.
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION								
OPAF/VEHICULAR EQUIPMENT			FAMILY OF MEDIUM TACTICAL VEHICLES			MULTIPLE - SEE P5A.								
Weapon System Cost Elements			IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
				QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

5T CARGO TRUCK (BPAC 2232)	A	56	105357	5900				18	105997	1908		
5T WRECKER (BPAC 2234)	A							3	228588	686		
TOTAL		56		5900				21		2594		

P-1 SHOP LIST ITEM NO. 15		PAGE NO. 58	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT											
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
C. P-1 ITEM NOMENCLATURE MEDIUM TACTICAL VEHICLE											

M1083 5T CARGO TRUCK (BPAC 2232)										
FY96	ARMY/TACOM (STEWART & STEVENSON) SEALY, TX	CM-5/FPE OPTION (YR4)	AFMC/WR-ALC	AUG 96	AUG 97	56	105,357			
FY98	ARMY/TACOM (STEWART & STEVENSON) SEALY, TX	CM-5/FPE OPTION (YR5)	AFMC/WR-ALC	MAR 98	MAR 99	18	105,997	YES	NO	
M1089, 5T WRECKER (BPAC 2234)										
FY98 #	ARMY/TACOM (STEWART & STEVENSON) SEALY, TX	OPTION	AFMC/WR-ALC	MAR 98	MAR 99	3	228,588	YES	NO	

D. REMARKS	
# FIRST TIME BUY FOR US AIR FORCE.	Exhibit P-5a Procurement History and Planning
P-1 SHOPP LIST ITEM NO. 15	PAGE NO. 59

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				HIGH MOBILITY VEHICLE					
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY		0	0	100	0	0	112	116	127		
COST (In Mil)		0	0	\$5.165	0	0	\$0.927	\$1.127	\$1.758		

1. These utility trucks are High Mobility Multi-Purpose Wheeled Vehicles (HMMWV), Model M1097A2. These vehicles have the capability to operate in austere, all terrain locations. They are required to support security police, civil engineering, communications, and special operations airlift communities. The M1097A2 is the work horse for the US Army; thus, with requirements to conduct combined joint operations, the M1097A2 is also the logical choice for the Air Force, due to the commonality and compatibility of parts and maintenance support in a joint force environment. It is essential this vehicle be procured to support Air Force global commitments. The total Air Force FY98 procurement requirement is 2,795 against an inventory objective of 3,573.

3. ANG/AFR: N/A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)		A. DATE FEBRUARY 1997
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B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE HIGH MOBILITY VEHICLE								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

M1097A2 HMMWV (BPAC 2261)										
FY96 *	ARMY/TACOM (AM General) South Bend, IN	CM-5/FPE OPTION	AFMC/WR-ALC	JUN 96	FEB 97	47	49,472			
FY98	ARMY/TACOM (AM General) South Bend, IN	CM-5/FPE OPTION	AFMC/WR-ALC	MAR 98	SEP 98	100	51,649	YES	NO	

D. REMARKS		P-1 SHOPP LIST ITEM NO. 16		PAGE NO. 61	Exhibit P-5a Procurement History and Planning
* FUNDED IN ITEMS LESS THAN \$2,000,000.					

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE</b>	<b>FEBRUARY 1997</b>
<b>APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT</b>		<b>P-1 ITEM NOMENCLATURE TRUCK, TRACTOR, OVER 5T</b>						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	58	38	27	35	78	177	261	81
COST (In Mil)	\$3.692	\$2.713	\$1.916	\$2.544	\$5.578	\$12.895	\$18.872	\$6.234

1. This family of vehicles is comprised of commercial, diesel engine driven truck tractors with capacities exceeding 5 tons. They are used for towing critical direct mission support equipment such as missile trailers and liquid oxygen and nitrogen trailers. The total Air Force FY98 procurement requirement is 1,499 against an inventory objective of 2,792.

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	6	375,912
FY97	6	428,690	0	0
FY98	0	0	2	130,818
FY99	6	440,732	4	293,546

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION							
OPAF/VEHICULAR EQUIPMENT		TRUCK, TRACTOR, OVER 5T				MULTIPLE - SEE P5A							
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

44,500 GWW US (BPAC 2331)	A	51	62652	3195	6	64027	384	5	65409	327	6	66850	401
55,000 GWW US (BPAC 2335)	A	1	74904	75	13	81147	1055	2	82932	166	2	84717	169
MISSILE SUPPORT (BPAC 2336)	A	6	70287	422	2	71093	142	10	73380	734	16	74996	1200
39,500 GWW US (BPAC 2338)	A				17	66599	1132	10	68890	689	11	70374	774
TOTALS		58		3692	38		2713	27		1916	35		2544

P-1 SHOPP LIST ITEM NO. 17		PAGE NO. 63	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK, TRACTOR, OVER 5T						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>44,500 QVW US (BPAC 2331)</b>											
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	FEB 96	MAY 96	51	62,652				
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 96	MAR 97	6	64,027				
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	5	65,409	YES	NO		
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	6	66,850	YES	NO		
<b>55,000 QVW US (BPAC 2335)</b>											
FY96	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 96	APR 96	1	74,904				
FY97	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 97	APR 97	13	81,147				
FY98	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 98	APR 98	2	82,932	YES	NO		
FY99	GSA (FORD) LOUISVILLE, KY	MIPR	AFMC/WR-ALC	JAN 99	APR 99	2	84,717	YES	NO		
<b>D. REMARKS</b>											
			P-1 SHOPP LIST ITEM NO. 17	PAGE NO. 64	Exhibit P-5a Procurement History and Planning						

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT

### C. P-1 ITEM NOMENCLATURE

TRUCK, TRACTOR, OVER 5T

Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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### MISSILE SUPPORT (BPAC 2336)

FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	FEB 96	MAY 96	3	68,861			
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	MAR 96	JUL 96	1	76,961			
FY96	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	APR 96	JUL 96	2	69,089			
FY97	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 97	APR 97	2	71,093			
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 98	APR 98	10	73,380	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 99	APR 99	16	74,996	YES	NO	

### D. REMARKS

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK, TRACTOR, OVER 5T					
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
39,500 GVVW US (BPAC 2338)										
FY97	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	DEC 96	MAR 97	17	66,599			
FY98	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	DEC 97	MAR 98	10	68,890	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	DEC 98	MAR 99	11	70,374	YES	NO	

D. REMARKS			
P-1 SHOPP LIST ITEM NO. 17		PAGE NO. 66	Exhibit P-5a Procurement History and Planning

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		CAP VEHICLES									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	\$0.781	\$0.760	\$0.746	\$0.744	\$0.762	\$0.779	\$0.792	\$0.800			

1. This is a continuing program for acquisition of vehicles to support Civil Air Patrol (CAP) activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counter drug, disaster relief, and training activities. FY98 and FY99 continue funding procurement of vehicles to support day-to-day operations.

2. ANG/AFR: N/A.

P-1 SHOPP LIST ITEM NO. 18		PAGE NO. 67
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UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			ITEMS LESS THAN \$2,000,000 (CARGO-UTILITY)								
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (In Mil)	\$11.382	\$13.194	\$5.025	\$11.434	\$11.688	\$5.247	\$1.588	\$7.390			

1. This P-1 line includes various cargo-utility vehicles with a procurement value of less than \$2,000,000.

2. See attached lists of Code A items.

3. ANG/AFR:

	ANG	AFR
	DOLLARS	DOLLARS
FY96	1,000,000	200,000
FY97	1,500,000	0
FY98	0	200,000
FY99	1,100,000	200,000

P-1 SHOPP LIST ITEM NO. 19		PAGE NO. 68
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UNCLASSIFIED

# UNCLASSIFIED

ITEMS LESS THAN \$2,000,000, CARGO-UTILITY

## NOMENCLATURE

TRUCK PICKUP 3/4T 4X4 (BPAC 2992002)  
 TRUCK PICKUP COMPACT 4X4 US (BPAC 2992003)  
 SEMI-TRAILER 60T LOWBOY (BPAC 2993002)  
 SEMI-TRAILER 20T 38 FOOT (BPAC 2993004)  
 SEMI-TRAILER 22 T TILT DECK (BPAC 2993005)  
 SEMI-TRAILER VAN CARGO 12T (BPAC 2993006)  
 SEMI-TRAILER LOW BED 35T (BPAC 2993007)  
 SEMI-TRAILER 50T LOWBOY (BPAC 2993008)  
 TRUCK VAN 24,000 GVW BAND (BPAC 2994002)  
 TRUCK VAN MAIL DISTRIBUTION (BPAC 2994018)  
 TRAILER CARGO 1.5T M-105 (BPAC 2996003)  
 TRAILER CHASSIS 2.5T M-200 (BPAC 2996008)  
 TRUCK TRACTOR 15T 6X4 M-915 (BPAC 2996013)  
 TRUCK CARGO 5T (BPAC 2996034)  
 TRAILER HIGH MOBILITY (BPAC 2996036)  
 TRUCK CARGO 2.5T M-35 SLEP (BPAC 2996037)  
 TRUCK TRACTOR SPOTTER (BPAC 2999002)  
 TRUCK TRACTOR 24,000 GVW 4X2 (BPAC 2999003)  
 SEMI-TRAILER 25T LOWBOY (BPAC 299A007)  
 TRUCK UTILITY MULTI-PURPOSE (BPAC 299A030)  
 TRUCK UTILITY SP (BPAC 299A031)  
 TRUCK UTILITY EOD (BPAC 299A032)  
 TRUCK UTILITY 4000 GVW 4X4 (BPAC 299B001)  
 TRUCK UTILITY 6000 GVW 4X4 (BPAC 299B002)  
 TRUCK UTILITY 4000 GVW 4X4 (BPAC 299B005)  
 TRUCK UTILITY 6000 GVW 4X4 BI-FUEL (BPAC 299B014)  
 TRUCK UTILITY 4000 GVW 4X4 BI-FUEL (BPAC 299B016)  
 TRUCK UTILITY 4000 GVW 4X4 BI-FUEL (BPAC 299B019)  
 MINOR REPLACEMENT ITEMS (BPAC 299C002)  
 TRUCK 4X2 6 PASS TRAILER TOW (BPAC 299C010)  
 TRUCK CARGO 2.5T 4X4 (BPAC 299C011)  
 TRUCK CARGO 2.5T 4X2 (BPAC 299C014)  
 TRUCK PANEL 4X2 (BPAC 299C018)  
 TRUCK PANEL 4X2 JAPAN (BPAC 299C021)

FY 1998

FY 1999

NSN	QTY	\$ (THOU)	QTY	\$ (THOU)
2320008116869	20	377	35	674
2320010878223	2	37		
2330003792572			1	30
2330013819477	2	41	6	125
2330001383011	1	21		
2330008655443	1	23	2	46
2330010516648			3	81
2330010585911			1	59
2320010397929	1	34	1	35
2320010031538			1	60
2330005416466			1	8
2330005403950	4	27	3	20
2320011252640			1	136
2320013543386			7	758
2330013886662	12	85	15	109
2320005403963	3	166	4	226
2320002392944			1	67
2320006112429			2	88
2330008997526			1	18
2320013808604			22	1091
2320013808605			19	1105
2320013808606			21	1077
2320009889120			1	20
2320010795354	19	503	22	595
2320013386502	3	60	4	82
2320010795354	44	1268	33	972
2320009889120			3	82
2320013386502	3	83		
		1390		543
2320010107351	8	193	9	222
2320008017593	1	52	1	53
2320007023537			1	37
2320010132754	7	114	60	1001
2320010132754			2	28

# UNCLASSIFIED

# UNCLASSIFIED

TRUCK STAKE & PLATFORM 4X2 (BPAC 299C026)	2320008518481	4	84	23	491
TRUCK STAKE & PLATFORM 10000 GVW 4X2 (BPAC 299C027)	2320012507367	10	226	25	577
TRUCK STAKE & PLATFORM 10000 GVW 4X4 (BPAC 299C028)	2320013022698	1	25	1	26
TRUCK PANEL 4X2 BI-FUEL (BPAC 299C040)	2320010132754	10	192	43	843
TRUCK S&P 1T 4X2 JAPAN (BPAC 299C048)	2320008518481	2	24	4	49
TOTALS		158	5025	379	11434

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								HMMWV, ARMORED	
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY	25	38	125	28	14	13	13	13	24		
COST (In Mil)	\$3.817	\$7.396	\$24.181	\$5.501	\$2.809	\$2.662	\$2.723	\$3.516			

1. These are armored High Mobility Multipurpose Wheeled Vehicles (HMMWV), also known as HUMMERS. They are diesel powered utility trucks which provide added ballistic protection for armament components, crew, and ammunition. The total Air Force FY98 procurement requirement is 1,727 against an inventory objective of 1,960.
2. These trucks are essential to the Force Protection/Anti-Terrorism effort in the Air Force. The growth from FY97 to FY98 is in support of the FP/AT effort. This is a joint program with the US Army to provide an armored vehicle which will satisfy Explosive Ordnance Disposal (EOD), Civil Engineering (CE), and Base Recovery After Attack (BRAAT), and Security Police (SP) requirements. EOD will employ this vehicle as an Unexploded Ordnance (UXO) team work platform and CE will use it to support damage assessment and as an Armored Personnel Carrier (APC). The SP will use it for force protection and nuclear weapon security and Air Base Defense operations.
3. ANG/AFR: N/A.

P-1 SHOPP LIST ITEM NO. 21		PAGE NO. 71
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UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE
OPAF/VEHICULAR EQUIPMENT			HMMWV, ARMORED			AM GENERAL, SOUTH BEND, IN			FEBRUARY 1997
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
HMMWV, UP-ARMORED, M1116 (BPAC 3201)	A	17	196882	3347	38	194632	7396	125	193450
HMMWV, LIGHT ARMORED, M1025A2 (BPAC 3202)	A	8	58711	470					
TOTALS		25		3817	38		7396	125	
							24181	28	196464
									5501

P-1 SHOPP LIST ITEM NO. 21		PAGE NO. 72	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE HMMWV, ARMORED							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
HMMWV, UP-ARMORED, M-1116 (BPAC 3201)	FY96	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	AUG 96	AUG 97	17	196,882			
	FY97	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	JUN 97	JAN 98	38	194,632	YES	NO	
	FY98	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	JAN 98	JAN 99	125	193,450	YES	NO	
	FY99	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPTION	AFMC/WR-ALC	JAN 99	JAN 00	28	196,464	YES	NO	
HMMWV, ARMORED, M-1025A2 (BPAC 3202)	FY96	ARMY/TACOM (AM GENERAL) MISHAWAKA, IN	MIPR/OPTION	AFMC/WR-ALC	APR 96	OCT 96	8	58,711			

D. REMARKS			Exhibit P-5a Procurement History and Planning		
P-1 SHOPP LIST ITEM NO.		21	PAGE NO.	73	

# UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRACTOR, TOW, FLIGHTLINE							
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003				
152	108	124	306	189	211	118	6				
\$4,226	\$3,120	\$3,837	\$9,682	\$6,117	\$6,970	\$3,986	\$0.207				

1. This vehicle family is defined as diesel engine driven two and four wheel drive tow tractors necessary for towing aircraft and support equipment. This tractor is capable of towing support equipment loads up to 40,000 pounds and aircraft up to 70,000 pounds. Most major commands, including PACAF, AFMC, USAF, ANG, and ACC, operate this vehicle in direct mission support roles. Depending on terrain and mission requirements, there are various configuration options available. The total Air Force FY98 procurement requirement is 2,420 against an inventory objective of 4,383.

2. Code A.

3. Unit Price: \$30,946

5. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	2	55,608	0	0
FY97	17	491,181	0	0
FY98	0	0	0	0
FY99	14	442,974	0	0

P-1 SHOPP LIST ITEM NO.		PAGE NO.
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT											
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
C. P-1 ITEM NOMENCLATURE TRACTOR, TOW, FLIGHTLINE											

TRACTOR, TOW, FLIGHTLINE (BPAC 3332)											
FY96	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 95	NOV 96	152	27,804				
FY97	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 96	JAN 98	108	28,893				
FY98	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 97	NOV 98	124	30,946	YES	NO		
FY99	ENTWHISTLE HUDSON, MA	CM-4/FP (OPTION)	AFMC/WR-ALC	NOV 98	MAR 99	306	31,641	YES	NO		

D. REMARKS		
P-1 SHOPP LIST ITEM NO. 22	PAGE NO. 75	Exhibit P-5a Procurement History and Planning

# UNCLASSIFIED



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FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: TRACTOR, TOW, FLIGHTLINE												DATE: FEBRUARY 1997																									
ITEM/MFG PROCUREMENT YEAR		PROC ACCT BAL		FISCAL YEAR 00												FISCAL YEAR 01												FISCAL YEAR 02											
		QTY	PRIOR DUE	CALENDAR YEAR 00												CALENDAR YEAR 01												CALENDAR YEAR 02											
		1-04	1-04	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TRACTOR, TOW, FLIGHTLINE																																							
ENTWHISTLE CO.																																							
FY91 (FIRST ARTICLE)		AF	3	2	1																																		
FY91 (1ST YR)		AF	566	566	0																																		
FY91 (2ND YR)		AF	17	17	0																																		
FY94 (3RD YR)		AF	39	39	0																																		
FY95 (4TH YR)		AF	9	9	0																																		
FY96 (OPTION)		AF	152	152	0																																		
FY97 (OPTION)		AF	108	108	0																																		
FY98 (OPTION)		AF	124	124	0																																		
FY99 (OPTION)		AF	306	202	104	30	30	30	14																														
OTHER REQUIREMENTS																																							
DBOF (OPTION)		DBOF	5	5	0																																		
FY95		NAVY	1	1	0																																		
TOTAL			782	1225	782	30	30	30	15	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	
MANUFACTURER'S NAME AND LOCATION		PROD RATES		RE-																																			
ENTWHISTLE CO.		MN	MAX	CH D+																																			
HUDSON, MA		20	30	30																																			
		ADMIN LEAD TIME		MANUFACTURING																																			
		PR 1 OCT		AFT 1 OCT																																			
		8		2																																			
		12		4																																			
		20		6																																			
		OCT		OCT																																			
		INITIAL		REORDER																																			

P-1 SHOPPING LIST  
ITEM NO. 22

UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		ITEMS LESS THAN \$2,000,000 (SPECIAL PURPOSE)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2003
QUANTITY							
COST (In Mil)	\$6.477	\$4.930	\$6.738	\$10.178	\$14.997	\$16.797	\$15.175

1. This item includes Special Purpose vehicles with a procurement value of less than \$2,000,000 each. The vehicles are maintenance and facility support vehicles that are essential to base operations and aircraft tow tractors which are essential to flying operations.
2. See attached lists of Code A items.

### 3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	2,500,000	0
FY97	300,000	0
FY98	400,000	100,000
FY99	2,200,000	0

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## UNCLASSIFIED

ITEMS LESS THAN \$2,000,000, SPECIAL PURPOSE NOMENCLATURE	NSN	FY 1998 QTY \$ (THOU)	FY 1999 QTY \$ (THOU)
TRUCK REFUSE REAR HOIST (BPAC 3991002)	2320008026354	1	70
TRUCK REFUSE FRONT LOAD 24CY (BPAC 3991003)	2320008976837	2	255
TRUCK REFUSE TILT FRAME (BPAC 3991006)	2320008338957	1	156
TRAILER CABLE REED 10T (BPAC 3992003)	2330004207079	3	60
TRUCK TANK 1200 GALLON 4X2 (BPAC 3993008)	2320001776777	1	62
TRUCK TANK 1200 GALLON 4X4 (BPAC 3993010)	2320001776778	3	237
SEMI-TRAILER WATER DISTRIBUTOR 5500 GAL (BPAC 3994010)	3825005703417	10	773
SEMI-TRAILER COMPRESSED GAS (BPAC 3994018)	2330009955613	2	418
SEMI-TRAILER NITRIC ACID (BPAC 3994020)	2330002450697	1	20
TRAILER CHASSIS 1T MB-1 (BPAC 3995001)	2330005403715	5	19
TRAILER 400 GALLON WATER (BPAC 3996003)	2330000606511	2	24
TRUCK REEFER VAN 19,000 GVW (BPAC 3997001)	2320007704467	10	459
TRUCK 9T HI LIFT (BPAC 3999002)	2320005403991	8	871
TRUCK 3T HI LIFT (BPAC 3999003)	2320005403489	1	82
TRUCK MAINTENANCE LINE CONSTRUCT (BPAC 399A004)	2320013727398	2	267
TRUCK MAINTENANCE 3/4T 4X4 BI-FUEL (BPAC 399A005)	2320005411714	12	350
TRUCK MAINTENANCE 3/4T 4X4 (BPAC 399A006)	2320005411714	1	21
TRUCK MAINTENANCE HI-REACH 45 FT (BPAC 399A007)	2320009955610	11	893
TRUCK MAINTENANCE HI-REACH 65 FT (BPAC 399A008)	2320009897163	1	20
TRUCK PHONE MAINTENANCE STANDARD (BPAC 399A010)	2320008019193	6	123
TRUCK PHONE MAINTENANCE COMPACT (BPAC 399A011)	2320010939261	48	679
TRUCK PHONE MAINTENANCE S-90 (BPAC 399A012)	2320004558464	1	106
TRUCK PHONE MAINTENANCE S-55 4X4 (BPAC 399A014)	2320010385067	1	151
TRUCK MAINTENANCE 1T (BPAC 399A021)	2320013437375	8	183
TRUCK MAINTENANCE COMPACT (BPAC 399A023)	2320013437375	2	43
TRUCK PHONE MAINT STANDARD BI-FUEL (BPAC 399A024)	2320010939261	30	652
TRUCK PHONE MAINT CREW CAB (BPAC 399A025)	2320008019193	7	164
TRUCK STAKE & PLATFORM 3T (BPAC 399B001)	2320013951368	2	60
TRUCK HYDRANT HOSE R-12 (BPAC 399B002)	2320009354696	1	70
SEMI-TRAILER VAN REFRIG 7.5T (BPAC 399B011)	2320011252481	4	575
MINOR REPLACEMENT ITEMS (BPAC 399B013)	2330008815306	1	39
TRACTOR AIRCRAFT TOW MB-2 (BPAC 399C002)	1740001438464	280	102
TRACTOR AIRCRAFT TOW U-30 (BPAC 399C003)	1740013679485	4	404
TRACTOR WHEELED 85HP (BPAC 399C005)	1740013679485	3	509
TRACTOR INDUSTRIAL IW-70 (BPAC 399C008)	2420012058579	1	35
TRACTOR AIRCRAFT TOW MB-4 (BPAC 399C013)	2420001138984	5	115
WRECKER TILT BED (BPAC 399E001)	1740005807990	11	722
WRECKER 4X2 (BPAC 399E004)	2320013804755	1	60
WRECKER 6X4 44,500 GVW (BPAC 399E005)	2320013033010	3	310
TOTALS	2320011306353	109	6738

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT			P-1 ITEM NOMENCLATURE							TRUCK CRASH P-19	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	7	5	13	4	3	14			
COST (In Mil)	0	0	\$2,048	\$1,495	\$3,974	\$1,249	\$0,958	\$4,570			

1. This aircraft crash rescue fire truck equips our bases with a vehicle capable of rapidly extinguishing aircraft fires. When equipped with a structural kit, it serves dual roles of aircraft crash rescue truck and structural fire truck. It has a 1,000 gallon tank, is air transportable in C-130 aircraft, and is used by all military services. The total Air Force FY98 procurement requirement is 668 against an inventory objective of 690.

2. Code A.

3. Unit Price: \$292,521.

5. ANG/AFR: N/A.

P-1 SHOPP LIST ITEM NO.	PAGE NO.
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE
						FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE					TRUCK CRASH P-19			
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

TRUCK CRASH P-19 (BPAC 4012)										
FY87	AF (OSHKOSH) OSHKOSH, WI	OPTION	AFMC/WR-ALC	FEB 87	OCT 87	14	157,827			
FY98	DCSC (UNKNOWN) *	ID/IQ	AFMC/WR-ALC	DEC 97	SEP 98	7	292,521	YES	NO	
FY99	DCSC (UNKNOWN)	ID/IQ	AFMC/WR-ALC	DEC 98	SEP 99	5	298,966	YES	NO	

D. REMARKS			
* DCSC WILL BUY ON AN INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT.			
P-1 SHOPP LIST ITEM NO. 24		PAGE NO. 81	Exhibit P-5a Procurement History and Planning

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE							TRUCK CRASH P-23	
OTHER PROCUREMENT AFVEHICULAR EQUIPMENT			FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY			0	0	0	4	1	1	0	6	
COST (In Mill)			0	0	0	\$2,536	\$0,648	\$0,662	0	\$4,151	

1. This is an 8-wheel-drive, diesel engined aircraft crash fire truck with a 3,000 gallon capacity. It is designed to rescue entrapped personnel and to combat fires resulting from aircraft crashes. It also provides a capability for long and continued application of cooling agent to prevent detonation of high explosives aboard burning aircraft. This vehicle is required by all bases supporting aircraft having fuel capacity of 3,600 to 16,000 gallons. The total Air Force FY98 procurement requirement is 135 against an inventory objective of 376.

2. Code A.

3. Unit Price: \$633,933 (FY99).

5. ANG/AFR: N/A.

P-1 SHOPP LIST ITEM NO. 25			PAGE NO. 82
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE TRUCK CRASH P-23								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
TRUCK CRASH P-23 (BPAC 4032)										
FY94	AF (TELEDYNE) OCALA, FL	OPTION	AFMC/WR-ALC	JUN 94	APR 96	3	424,507			
FY99	DCSC (UNKNOWN)*	ID/IQ	AFMC/WR-ALC	DEC 98	JUN 99	4	633,933	YES	NO	

D. REMARKS		
* DCSC WILL BUY ON AN INDEFINITE DELIVERY/INDEFINITE QUANTITY CONTRACT.		
P-1 SHOPP LIST ITEM NO. 25	PAGE NO. 83	Exhibit P-5a Procurement History and Planning

# UNCLASSIFIED

## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				ITEMS LESS THAN \$2,000,000 (FIRE FIGHTING)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003					
QUANTITY													
COST (In Mil)	\$1.406	0	\$3.652	\$1.993	\$3.310	0	0	\$0.462					

1. This P-1 Line includes fire fighting equipment with a procurement value of less than \$2,000,000. These vehicles include both structural fire trucks and aircraft crash rescue trucks.

2. See following list of Code A items.

NOMENCLATURE	NSN	FY 1998 QTY	FY 1998 \$(THOU)	FY 1999 QTY	FY 1999 \$(THOU)
P-23 Aircraft Crash Fire Truck (BPAC 4991)	4210007026801	2	1240	1	242
P-26 Water Supply Truck (BPAC 499D)	4210013564907	2	473	1	181
P-22 Structural Fire Truck (BPAC 499F)	4210002244564			2	469
Hazardous Material Truck (BPAC 499G)	4210013965219	9	1939	5	1101
P-28 Heavy Rescue Vehicle (BPAC 499H)	4210013696048	13	3652	9	1993
TOTALS					

3. ANG/AFR:

	ANG DOLLARS	AFR DOLLARS
FY96	0	700,000
FY97	0	0
FY98	0	0
FY99	0	0

P-1 SHOPP LIST ITEM NO.		PAGE NO.
27		84

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT				P-1 ITEM NOMENCLATURE TRUCK F/L 10,000 LB							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY	0	0	26	71	74	82	12	10			
COST (In Mil)	0	0	\$1.758	\$5.091	\$6.396	\$7.405	\$0.812	\$0.676			

1. This family of vehicles is defined as pneumatic tired (PT), 10,000 pound (10K), commercial forklifts. These forklifts are the basic 463L air cargo system support vehicles to handle 108" X 88" pallets. They are compatible with and support all strategic and tactical airlift aircraft except the wide-body Civil Reserve Air Fleet (CRAF) aircraft. The family consists of the standard model with dual 105" lift, 72" tine configuration and lateral shift capability as well as the adverse terrain (AT) model which utilizes a front end scoop loader chassis to provide the required mobility. The AT model permits rapid loading/offloading of aircraft cargo at forward combat locations. The total Air Force FY98 procurement requirement is 1,293 against an inventory objective of 3,156.

2. ANG/AFR: N/A.

P-1 SHOPP LIST ITEM NO. 28		PAGE NO. 85	
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UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME LOCATION			C. MANUFACTURER NAME/PLANT/ CITY/STATE			D. DATE	
OPAF/VEHICULAR EQUIPMENT		TRUCK FORKLIFT, 10,000 LB			Multiple Contractors (See P-5A)			FEBRUARY 1997	
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
TRUCK FORKLIFT, 10K AT (BPAC 5031)	A							11	90940
TRUCK FORKLIFT 10K STANDARD (BPAC 5032)	A							15	50556
TOTALS								26	1758
								37	92939
								34	48578
								71	5091

P-1 SHOPP LIST ITEM NO.		PAGE NO.		Exhibit P-5 Weapon System Cost Analysis	
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/VEHICULAR EQUIPMENT				TRUCK, F/L 10,000 LB						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

TRUCK FORKLIFT 10K AT (BPAC 5031)										
FY91	DEERE DAVENPORT, IA	CM-4/FPE OPTION (4YR)	AFMC/WR-ALC	AUG 91	MAR 92	95	58,732			
FY97 *	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 97	MAR 98	1	114,000**	YES	NO	
FY97 *	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 97	DEC 98	6	89,104	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 98	JAN 99	11	90,940	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/WR-ALC	DEC 98	MAR 99	37	92,939	YES	NO	
TRUCK FORKLIFT 10K STANDARD (BPAC 5032)										
FY95	HYSTER DANVILLE, IL	OPTION	AFMC/WR-ALC	APR 95	JUN 96	32	43,746			
FY98	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 98	MAR 99	1	92,587**	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WR-ALC	JUN 98	DEC 99	14	47,554	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/WR-ALC	MAY 99	FEB 00	34	48,578	YES	NO	

D. REMARKS

- \* FUNDED IN ITEMS LESS THAN \$2,000,000.
- \*\* FIRST ARTICLE UNIT PRICE INCLUDES COST OF FIRST ARTICLE TESTS.

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FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: TRUCK FORKLIFT 10,000 LB												DATE: FEBRUARY 1997																
ITEM/MFG PROCUREMENT YEAR		PROC ACCT BAL				FISCAL YEAR 00				FISCAL YEAR 01				FISCAL YEAR 02				LATER												
		QTY	PRIOR	DUE	1-001	1-001	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
TRUCK FORKLIFT 10,000 LB AT (BPAC 5031)																														
UNKNOWN																														
FY97		AF	7	6	1	1																								
FY98 (OPTION)		AF	11	11	0																									
FY99 (OPTION)		AF	37	33	4	4																								
TOTAL			55	50	5	5	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANUFACTURER'S NAME AND LOCATION		PROD RATES		REORDER		ADMIN LEAD TIME		MANUFACTURING		TOTAL AFTER 1																				
UNKNOWN		MIN	MAX	CH D+	PR 1 OCT	AFT 1 OCT	TIME	TIME	TIME	TIME	OCT																			

P-1 SHOPPING LIST  
ITEM NO. 28

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## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					DATE
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		60K A/C LOADER					FEBRUARY 1997
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY	34	0	60	60	60	16	0
COST (in Mil)	\$42.336	0	\$83.143	\$93.406	\$91.916	\$19.327	0

1. The 60,000 pound (60K) aircraft loader will augment and ultimately replace the current 463L material handling equipment (MHE) system 40,000 pound aircraft loader, the lower lobe aircraft loader, and approximately one-half of the wide body elevator aircraft loaders, thus providing increased heavy lift and transport capability. It will be the backbone of the strategic airlift 463L MHE vehicle fleet and is the critical link ensuring rapid on/off-load capability of strategic airlift including Civil Reserve Aircraft Fleet (CRAF) aircraft. The 60K loader is an integral part of the airlift system during peacetime logistics missions and it assures minimum ground times for increased capability during wartime surges. The 60K loader is designed to handle all configurations of air cargo including 463L pallets, commercial pallets, type V airdrop platforms, container delivery system (CDS) loads, International Standard Organization (ISO) containers, LD3 containers, and rolling stock. The loader will have the capability to accommodate six pallets and load/off-load a maximum of 60,000 pounds (to accommodate an Army airdrop requirement) to a height of at least 18.5 feet (to accommodate 747 aircraft) and to have a lowering capacity to 39 inches. It will work with current and planned military cargo aircraft as well as current civilian models utilized by commercial carriers and the CRAF. It is designed to meet nuclear materials handling safety criteria and certification. The 60K loader will be "drive-on drive-off" and air transportable on C-141, C-5, and C-17 aircraft. R&D funds provided four prototypes (two each from two contractors). Development, Test, and Evaluation (DT&E) was completed in November 1993 and the Operational Assessment (OA) was completed in January 1994. The initial production contract was awarded to Southwest Mobile Systems (now Systems and Electronics, Inc.) in April 1994. The inventory objective is 318 loaders; 59 are funded in FY94 thru FY96; 255 will be on hand at the end of the FY2001 funded delivery period.

4. Code A.

5. Unit Price: \$1,300,000.

6. ANG/AFR:

	QTY	ANG DOLLARS	AFR DOLLARS
FY96	0	0	1,091,029
FY97	0	0	0
FY98	1	1,300,000	2,600,000
FY99	1	1,200,000	0

P-1 SHOPP LIST ITEM NO.	PAGE NO.
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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/CITY/STATE LOCATION			D. DATE					
OPAF/VEHICULAR EQUIPMENT		60K A/C LOADER			SYSTEMS ELECTRONICS, INC. WEST PLAINS, MO								
Weapon System Cost Elements		FY 1996			FY 1997			FY 1998			FY 1999		
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

60K AIRCRAFT LOADER (BPAC 5121)	A	34	1091029	37095						60	1300000	78000	60	1200000	72000
NON-RECURRING COST (BPAC 5122)	A														
A. ECONOMIC PRICE ADJUSTMENT				2559											10000
B. RELIABILITY INCENTIVE															
C. ON-SITE ENG TECH SUPPORT				299											
D. ECO/RISK				1774								5067			11322
SUB-TOTAL NON-RECURRING				4632								5067			21322
DATA (BPAC 5123)	A			52								76			84
SUPPLY SUPPORT (BPAC 5124)	A			557											
TOTALS		34		42336						60		83143	60		93406

P-1 SHOPP LIST ITEM NO. 29		PAGE NO. 93	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT							C. P-1 ITEM NOMENCLATURE 60K AIRCRAFT LOADER			
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 60K AIRCRAFT LOADER (BPAC 5121)

FY96	SYSTEMS & ELECTRONICS, INC. WEST PLAINS, MO	C/FPIS (3 <sup>rd</sup> YEAR)	AFMC/WR-ALC	NOV 95	MAR 98	34	1,091,029			
FY98	SYSTEMS & ELECTRONICS, INC. WEST PLAINS, MO	TBD	AFMC/WR-ALC	APR 98	JAN 99	60	1,300,000	YES	YES	JUL 98*
FY99	SYSTEMS & ELECTRONICS, INC. WEST PLAINS, MO	TBD	AFMC/WR-ALC	NOV 98	JAN 00	60	1,200,000	YES	NO	JUL 98*

## REMARKS

\* FINAL SPECIFICATIONS WILL BE THE CONTRACTOR'S DESIGN UNIQUE SPECIFICATIONS WHICH WILL BE DELIVERED 60 DAYS AFTER PHYSICAL CONFIGURATION AUDIT (PCA).  
NOTE: C/FPIS = COMPETITIVE/FIXED PRICE INCENTIVE WITH SUCCESSIVE TARGETS.

P-1 SHOPP LIST ITEM NO. 29	PAGE NO. 94	Exhibit P-5a Procurement History and Planning
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# UNCLASSIFIED



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FY98 PRESIDENT'S BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: 60K AIRCRAFT LOADER												DATE: FEBRUARY 1997																		
ITEM/MFG PROCUREMENT YEAR		FISCAL YEAR 97				FISCAL YEAR 98				FISCAL YEAR 99				CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99										
QTY	PRIOR DUE	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12	01	02	03	04	05	06	07	08	09	10	11	12
60K AIRCRAFT LOADER																																
SYSTEMS & ELECTRONICS, INC.																																
FY94 (1ST YR)	AF	10	0	10																												
FY95 (2ND YR)	AF	15	0	15																												
FY98 (3RD YR)	AF	34	0	34																												
NEW CONTRACT																																
SYSTEMS & ELECTRONICS, INC.																																
FY98	AF	60	0	60																												
FY99	AF	60	0	60																												
TOTAL																																
MANUFACTURER'S NAME AND LOCATION		SYSTEMS & ELECTRONICS, INC., WEST PLAINS, MO		PROD RATES		MIN		MAX		CH D-		REORDER		PR 1 OCT		AFT 1 OCT		MANUFACTURING TIME		TOTAL AFTER 1 OCT		REMARKS:		NOTE: 4 LOADERS WILL BE DELIVERED IN JUN 97 TO BE USED FOR INITIAL OPERATIONAL TEST & EVALUATION (IOT&E). CONTRACTOR WILL CONTINUE TO PRODUCE, BUT AF WILL NOT ACCEPT THE 16 LOADERS UNTIL SUCCESSFUL COMPLETION OF IOT&E.								
				2		5						7		2		14		9		16												

P-1 SHOPPING LIST  
ITEM NO. 29

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		P-1 ITEM NOMENCLATURE NEXT GENERATION SMALL LOADER						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY	0	0	0	22	33	37	49	64
COST (in Mil)	0	0	0	\$29.957	\$30.636	\$31.599	\$39.943	\$47.803

1. The Next Generation Small Loader (NGSL) will augment and ultimately replace the oldest and increasingly unreliable 25K loaders and remainder of the wide body elevator loader (WBEL) fleet. Unlike the 60K loader, the NGSL will be C-130 transportable which will further enhance the Air Force's ability to support rapid deployment to austere operating locations. The NGSL, in conjunction with the 60K loader, will be an integral part of the airlift system during peacetime logistics missions and assure minimum ground times for increased capability during wartime and contingency surges.
2. The NGSL is designed to handle all configurations of air cargo, including 463L pallets, commercial pallets, type V airdrop platforms, container delivery system (CDS) loads, International Standard Organization (ISO) containers, LD3 containers, and rolling stock. The loader will have the capability to load/offload up to three pallets (up to a maximum of 25,000 to 30,000 pounds) to a height of between 39 inches and 18.5 feet (to accommodate 747 aircraft). It will work with current and planned military cargo aircraft as well as current civilian models utilized by commercial carriers and the Civil Reserve Airlift Fleet (CRAF).
3. RDT&E, AF, funds will procure two foreign loaders to undergo Foreign Comparative Testing (FCT) during the FY97-98 time frame. The initial production contract is planned to be awarded in FY99 and deliveries to commence in FY00. See Air Force Descriptive Summary for Program Element Code 41214F. The inventory objective is 264 loaders.
4. ANG/AFR: N/A.

**UNCLASSIFIED**

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997
OPAF/VEHICULAR EQUIPMENT			NEXT GENERATION SMALL LOADER			UNKNOWN			
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
NGSL LOADER (BPAC 5151)	B							22	726611
NON-RECURRING COSTS (BPAC 5122)									
DATA (BPAC 5123)									
TOTALS								22	29957

P-1 SHOPP LIST ITEM NO. 30		PAGE NO. 98	Exhibit P-5 Weapon System Cost Analysis
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UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT				C. P-1 ITEM NOMENCLATURE NEXT GENERATION SMALL LOADER							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
NEXT GENERATION SMALL LOADER (BPAC 5151)  FY99	AF (UNKNOWN)	TBD	AFMC/WR-ALC	MAR 99	MAR 00	22	726,611	NO		TBD	

D. REMARKS		
P-1 SHOPP LIST ITEM NO. 30		PAGE NO. 99
Exhibit P-5a Procurement History and Planning		

# UNCLASSIFIED







# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		ITEMS LESS THAN \$2,000,000 (MATERIALS HANDLING EQUIP)					
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY							
COST (In Mil)	\$1.493	\$2.486	\$2.148	\$5.034	\$8.107	\$5.015	\$1.336
							\$1.391

1. These items include materials handling equipment (MHE) with a procurement value of less than \$2,000,000. These vehicles are lifting and sequencing devices which are critical to the support of base supply and depot operations.
2. See attached listing of Code A items.

## 3. ANG/AFR:

	ANG	AFR
	DOLLARS	DOLLARS
FY96	0	0
FY97	0	200,000
FY98	100,000	200,000
FY99	800,000	100,000

P-1 SHOPP LIST ITEM NO. 31		PAGE NO. 102
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# UNCLASSIFIED

ITEMS LESS THAN \$2,000,000, MATERIALS HANDLING EQUIPMENT

NOMENCLATURE	NSN	FY 1998 QTY \$(THOU)	FY 1999 QTY \$(THOU)
FORKLIFT 13K ADVERSE TERRAIN LCAT (BPAC 5991003)	3930011450120	9	15
FORKLIFT 15K DED (BPAC 5991004)	3930010113650		2
FORKLIFT 4K ELECTRIC ST (BPAC 5991005)	3930000539175		8
FORKLIFT 6K ELECTRIC ST (BPAC 5991013)	3930010471157	1	28
FORKLIFT NARROW AISLE (BPAC 5991022)	3930014221657		1
FORKLIFT 10K NON-463L (BPAC 5991023)	3930010153965	1	49
FORKLIFT NARROW AISLE (BPAC 5991024)	3930014214083	1	97
FORKLIFT 6K DED (BPAC 5991026)	3930010525219	10	272
FORKLIFT 4K (BPAC 5991027)	3930010130338	1	22
FORKLIFT 6K ROUGHT TERRAIN (BPAC 5991029)	3930008792157		15
FORKLIFT 4K LIQUID PROPANE (BPAC 5991034)	3930010130338	5	146
CONVEYOR BELT TRUCK MOUNTED (BPAC 5993001)	3930000195630	1	29
WAREHOUSE TRACTOR 4K (BPAC 5994007)	3930010070115	28	558
TRAILER PALLET CARGO (BPAC 5994010)	3920004809774	3	12
TOTALS		60	2148
			113
			5034

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		TRUCK, DUMP					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY	0	0	32	34	44	70	79
COST (In Mil)	0	0	\$2.087	\$1.519	\$2.607	\$3.841	\$3.860
							\$10.316

1. This vehicle family consists of standard commercial dump trucks. These vehicles have many applications but are used primarily by civil engineers to haul debris and other material. They are crucial to Rapid Runway Repair (RRR) and are also used for moving material at construction sites. The total Air Force FY98 procurement requirement is 791 against an inventory objective of 2,071.

## 2. ANG/AFR:

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96	0	0	0	0
FY97	0	0	0	0
FY98	3	307,698	3	263,810
FY99	1	63,832	0	0

P-1 SHOPP LIST ITEM NO.	PAGE NO.
32	104

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION								
OPAF/VEHICULAR EQUIPMENT		TRUCK, DUMP		VARIOUS - SEE P-5A								
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

DUMP TRUCK 5 TON 4X2 (BPAC 6131)	A							13	40748	530	29	41646	1208
DUMP TRUCK 5 TON 4X4 (BPAC 6132)	A							1	62429	62	3	63832	191
DUMP TRUCK 44,500 GWW 6X4 (BPAC 6133)	A							8	58678	469	2	59971	120
DUMP TRUCK 55,000 GWW 6X4 (BPAC 6134)	A							10	102566	1026			
TOTALS								32		2087	34		1519

P-1 SHOPP LIST ITEM NO. 32		PAGE NO. 105	Exhibit P-5 Weapon System Cost Analysis
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UNCLASSIFIED

## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT					C. P-1 ITEM NOMENCLATURE TRUCK DUMP							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		
<b>TRUCK DUMP 5 TON 4X2 (BPAC 6131)</b>												
FY96 *	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	JAN 96	APR 96	2	39,031					
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	13	40,748	YES	NO			
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	29	41,646	YES	NO			
<b>TRUCK DUMP 5 TON 4X4 (BPAC 6132)</b>												
FY93	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	FEB 93	MAY 93	4	56,091					
FY98	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 97	MAR 98	1	62,429	YES	NO			
FY99	GSA (FORD) LOUISVILLE, KY	ID/IQ	AFMC/WR-ALC	DEC 98	MAR 99	3	63,832	YES	NO			
<b>D. REMARKS</b>												
* FUNDED IN ITEMS LESS THAN \$2,000,000 (P-1 LINE # 34).												
P-1 SHOPP LIST ITEM NO. 32					PAGE NO. 106			Exhibit P-5a Procurement History and Planning				

UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/VEHICULAR EQUIPMENT		C. P-1 ITEM NOMENCLATURE								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

TRUCK DUMP 44,500 GVW 6X4 (BPAC 6133)										
FY96 *	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	NOV 95	FEB 96	5	56,205			
FY98	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	MAR 98	JUN 98	8	58,678	YES	NO	
FY99	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	MAR 99	JUN 99	2	59,971	YES	NO	
TRUCK DUMP 55,000 GVW 6X4 (BPAC 6134)										
FY95	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	DEC 95	MAR 96	3	98,243			
FY98	GSA (FORD) LOUISVILLE, KY	ID/Q	AFMC/WR-ALC	MAR 98	JUN 98	10	102,566	YES	NO	

D. REMARKS	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
* FUNDED IN ITEMS LESS THAN \$2,000,000 (P-1 LINE # 34).	32	107	

# UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		MODIFICATIONS						
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	\$1.355	\$4.249	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200	\$0.200

1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for vehicle equipment.
2. The FY96 and FY97 programs will modify 25K loaders to enable them to load and unload cargo from wide body aircraft. Modification of 69 loaders will add a device which will increase the reach height of the deck from its current 13 foot reach to an 18 foot, 4 inch reach. The current loaders cannot service wide body aircraft due to their limited reach. Use of wide body aircraft for movement of DoD air cargo has steadily increased over the years, but the assets required for loading and offloading of these aircraft have not kept pace. There is a shortfall in material handling equipment (MHE) with high lift capability. Modifying these loaders will greatly enhance the Air Force's capability to accomplish its mission. Currently, there is a limited number of wide body elevator loaders (WBEL) in the field and they are used extensively to accomplish real world missions. These assets are routinely repositioned for air cargo loading and offloading. This practice is costly (approximately \$350,000 per month) and manpower intensive.
3. The FY98 and FY99 programs represent a level of effort \$0.2M for "Miscellaneous Low Cost Modifications." This line item is to satisfy historically unforeseen modification requirements such as the 40,000 pound (40K) Aircraft Loaders which were reconfigured for use as casualty transfer vehicles in conjunction with Boeing 767AE aircraft to support Desert Storm.

MOD #	DESCRIPTION	FY96	FY97	FY98	FY99
LVV 01	25K LOADER	1.3	4.0		
N/A	MISC LOW COST MODS		0.2	0.2	0.2
	TOTAL	1.3	4.2	0.2	0.2

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**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE									
OTHER PROCUREMENT AF/VEHICULAR EQUIPMENT		ITEMS LESS THAN \$2,000,000 (BASE MAINTENANCE SUPPORT EQUIP)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	\$8.334	1.953	\$3.833	\$5.838	\$6.169	\$9.007	\$7.496	\$10.398			

1. This line item includes base maintenance support vehicular equipment with a procurement value of less than \$2,000,000. These vehicles provide Civil Engineering with the capability to conduct sanitary landfill operations, improve airfield safety by sweeping airfield areas of foreign object damage (FOD) materials, and repair/construct base physical plant requirements.

2. See attached listing of Code A items.

3. ANG/AFR:

	ANG	AFR
	DOLLARS	DOLLARS
FY96	100,000	100,000
FY97	0	0
FY98	100,000	0
FY99	800,000	0

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# UNCLASSIFIED

ITEMS LESS THAN \$2,000,000, BASE MAINTENANCE SUPPORT EQUIPMENT

NOMENCLATURE	NSN	FY 1998		FY 1999	
		QTY	\$ (THOU)	QTY	\$ (THOU)
SMALL UNIT SUPPORT VEHICLE (BPAC 6994002)	2350011329099			4	829
SWEEPER SNOW FRONT MOUNTED (BPAC 6994003)	3825011712798	8	467	1	60
TRUCK DUMP WITH SNOW BLADE (BPAC 6994013)	2320012069156			4	475
SWEEPER ROTARY TOWED (BPAC 6994014)	3825001903291	1	11		
SCOOP LOADER 2.5CY PT (BPAC 6995002)	3805001482169	1	118	1	120
SCOOP LOADER WITH BACKHOE (BPAC 6995003)	3805001482169	3	207	10	704
SCOOP LOADER 2.5CY FULL TRACKED (BPAC 6995005)	3805007289718			1	143
SCOOP LOADER 1.5CY W/QUICK COUPLER (BPAC 6995007)	3805010748111	2	179		
SCOOP LOADER 4CY PT (BPAC 6995008)	3805010751816			1	145
SCRAPER SELF PROPELLED (BPAC 6996001)	3805011538646	1	151		
ROLLER MOTORIZED PT 15T (BPAC 6997002)	3895000785898	1	52		
ROLLER MOTORIZED TANDEM (BPAC 6997005)	3895002436797			1	33
CRANE 7.5 T (BPAC 6998010)	3810010673991			2	371
EXCAVATOR DIESEL PT (BPAC 6999003)	3805011067176			7	1473
CLEANER VACUUM MULTIPURPOSE (BPAC 699A006)	3825011072438	11	784	9	655
SWEEPER DIRT RRR (BPAC 699A008)	3825012271997	2	76	1	39
SNOW PLOW 54,000 GVW (BPAC 699A015)	3825004437657	6	945		
TRENCHER W/TRAILER (BPAC 699B002)	3805010329974			4	245
ICE RESURFACER (BPAC 699C012)	3895002790588	1	63		
DRILL PAVEMENT (BPAC 699C024)	3820004775813	1	49		
DISTRIBUTOR WATER 1500 GAL (BPAC 699C026)	3825005541808	1	69		
TRUCK SEWER CLEANER HI-PRESSURE (BPAC 699C039)	2320001960811	1	93		
TRUCK SEWER CLEANER (BPAC 699C041)	2320013721823	1	179		
COMPACTOR SHEEPS FOOT (BPAC 699C045)	3805013597626	1	189		
TRACTOR DOZER T7 (BPAC 699G002)	2410007561161			2	327
TRACTOR DOZER T11 (BPAC 699G004)	2410007317872			1	219
TRACTOR FULL TRACKED SIZE 2 (BPAC 699G005)	2410008995208	1	30		
GRADER SIZE V (BPAC 699J004)	3805013374624	2	171		
TOTALS		45	3833	49	5838

# UNCLASSIFIED



# **ELECTRONIC & COMMUNICATIONS EQUIPMENT**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE				
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		NATIONAL AIRSPACE SYSTEM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	0	0	16.615	54.591	56.293	58.885	66.574	51.531

The National Airspace System (NAS) program provides the equipment and systems required to support air operations within the United States and its territories. The primary objective of the NAS program is to modernize the Department of Defense (DoD) air traffic control (ATC) system in conjunction with the Federal Aviation Administration (FAA) modernization effort. Equipment to be procured will include fixed site approach control and control tower automation, radars, voice switches and ancillary supplies. Use of Non-Developmental Items (NDI) will be maximized. If modernization of the current air traffic equipment is not implemented, systems which are approaching the end of their life cycle will become increasingly more expensive and more difficult to repair. Additionally, the FAA is modernizing the nation's air traffic control system, and DoD must remain operationally compatible with the FAA in order to continue to provide service to the military community and the civil users which depend on DoD's air traffic control services. The NAS program will modernize 44 DoD radar approach control sites in the United States and its territories. Each DoD operational site will receive a site unique array of equipment. There are 23 Air Force sites.

**1. DOD ADVANCED AUTOMATION SYSTEM (DAAS):** The DAAS will provide equipment tailored for the operation of two types of ATC facilities, local control facilities (usually referred to as RAPCONs) and military control tower facilities. DAAS will replace the current generation air traffic control automation system (hardware and software) which exists in the DoD Radar Approach Controls (RAPCONs) throughout the CONUS. It will provide digital controller displays, consoles, automation hardware and software to replace those that are approaching the end of their life cycle. FY99 funds procure 6 DAAS at key Air Force locations.

**2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR):** The DASR consists of two subsystems, a primary and a secondary surveillance radar. DASR will replace the DoD's current generation analog ATC surveillance radars (GPN-12s and GPN-20s in the Air Force) with Non-Developmental Item (NDI) digital airport surveillance radars which will provide the aircraft position and other data to the controller on displays in the RAPCON. FY98 and FY99 funds procure and install 2 and 4 DASRs respectively at key Air Force locations.

**3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS):** There will be three configurations of the Voice Communications Switching System procured. VCSS replaces current voice switches with new digital, NDI voice switches for DoD's Continental U.S. (CONUS) RAPCONs and some stand alone control towers. The VCSS provides the connectivity for the controllers to communicate via landlines and radios with requisite aircraft, vehicles, and agencies. FY98 and FY99 funds procure and install 2 and 4 VCSSs respectively at key Air Force locations.

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE						
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		NATIONAL AIRSPACE SYSTEM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

**4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS):** MAMS was developed in response to two General Accounting Office (GAO) audits which criticized the FAA and DoD for inefficient management, use and tracking of special use airspace (SUA). MAMS is an Air Force led program that fields an automated scheduling and utilization reporting system which will interconnect DoD SUA managers and allow more efficient scheduling and management of the activities within a specifically designated SUA. FY99 funds initiate the procurement of work stations, communications hardware and associated software for installation at 14 Air Force bases and operating locations within the CONUS.

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME NATIONAL AIRSPACE SYSTEM			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

1. DOD ADVANCED AUTOMATION SYSTEM (DAAS)	A										6	VAR	26,483
2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR)	A							2	6,710	13,420	4	5,952	23,808
3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS)	A							2	VAR	3,195	4	VAR	3,300
4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS) HARDWARE	A										14	VAR	1,000
TOTAL										16,615			54,591

# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE	
B. APPROPRIATION/BUDGET ACTIVITY						FEBRUARY 1997	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C. P-1 ITEM NOMENCLATURE				
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST
						SPECS AVAIL NOW	SPEC REV REQ'D
							IF YES, WHEN AVAIL

1. DOD ADVANCED AUTOMATION SYSTEM (DAAS) FY 99	RAYTHEON CORP. MARLBORO, MA	OPT/FFP <sup>2</sup>	AFMC/ESC	APR 99	APR 00	6	N/A <sup>1</sup>	YES	JUL 98
2. DIGITAL AIRPORT SURVEILLANCE RADAR (DASR) FY 98	RAYTHEON CORP. MARLBORO, MA	OPT/FFP <sup>3</sup>	AFMC/ESC	MAR 98	MAR 99	2	6,710	YES	JAN 98
FY 99	RAYTHEON CORP. MARLBORO, MA	OPT/FFP <sup>3</sup>	AFMC/ESC	JAN 99	FEB 00	4	5,952	YES	JAN 98
3. VOICE COMMUNICATIONS SWITCHING SYSTEM (VCSS) FY 98	DENRO INC. GAITHERSBURG, MD	OPT/FFP <sup>4</sup>	AFMC/ESC	DEC 97	JUL 98	2	N/A <sup>1</sup>	YES	SEP 97
FY 99	DENRO INC. GAITHERSBURG, MD	OPT/FFP <sup>4</sup>	AFMC/ESC	DEC 98	JUL 99	4	N/A <sup>1</sup>	YES	SEP 97
4. MILITARY AIRSPACE MANAGEMENT SYSTEM (MAMS) HARDWARE FY 99	UNKNOWN	TBD	AFMC/ESC	JAN 99	JUN 99	14	N/A <sup>1</sup>	YES	NOV 98

### D. REMARKS

1. PROCUREMENT OF VARIOUS TYPES OF HARDWARE RESULTS IN VARYING UNIT COSTS--EQUIPMENT QUANTITY AND CONFIGURATION WILL VARY FROM SITE TO SITE.
2. PRODUCTION OPTION ON THE FAA-MANAGED CONTRACT.
3. PRODUCTION OPTION ON THE EMD CONTRACT; THERE ARE TWO TYPES OF RADARS, PRIMARY AND SECONDARY.
4. PRODUCTION OPTION TO FAA-MANAGED EMD CONTRACT; THE VOICE SWITCH HAS 3 DIFFERENT CONFIGURATIONS.

P-1 SHOPP LIST ITEM NO. 42	PAGE NO. 4	Exhibit P-5a Procurement History and Planning
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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)									
DATE FEBRUARY 1997									
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY2002	FY 2003	
QUANTITY									
COST (In Mil)	24.348	21.533	38.329	36.830	35.517	35.297	35.873	36.004	

The Theater Air Control System Improvements (TACSI) program acquires the state-of-the-art equipment and capabilities essential to survival and combat effectiveness of tactical command and control (C2). Collectively, they provide the flexibility, responsiveness, reliability and maintainability necessary for effective tactical C2. Additionally, TACSI provides funding for procurement of the Air Force Mission Support System (AFMSS) which provides unit level mission planning systems for pilots and supports all current/future aircraft and associated weapons.

**1 GROUND THEATER AIR CONTROL SYSTEM (GTACS):** GTACS supports the roles of aerospace control, force application, force enhancement, and force support. This support is provided to worldwide contingency operations ranging from peacetime contingencies, to military operations other than war, to projecting decisive force into a major regional conflict to support a strategic war. GTACS' mission is to deploy a rapid reaction mobile capability into a theater, then to forward locations within that theater and set up a self-sufficient bases of operations. Once established, GTACS' battle management resources provide joint forces and theater commanders with a recognizable air picture for command and control of air operations. In support of this mission, GTACS elements accomplish battle management, force allocation, control of airborne assets (counter air, aerial refueling, interdiction, close air support, reconnaissance, airlift, special missions and others), surveillance, early warning, identification, and theater missile defense. They are also responsible for connectivity with elements of the Theater Air Control System (TACS) within a designated Area of Responsibility to include USAF, USN, USMC, USA, and allied assets. GTACS consists of a family of communication/electronics components. The requirements for funding are provided in the following categories:

a/b. **MODULAR CONTROL EQUIPMENT (MCE)/OPERATIONS MODULE (OM) INTERFACE KITS:** MCE mobile command and control (C2) centers link with existing (AWACS, Joint Stars, ABCCC (Airborne Battlefield Command and Control Center)) and planned sensors and other communication systems to provide the Joint Forces Air Component Commander (JFACC) an integrated air picture for C2 on the tactical battlefield. The MCE Pre-Planned Product Improvement Program (P3I), begun in FY93, increases MCE capability and includes among other things the Automated Air Tasking Order (AATO), and the OM interface kits to implement the MCE P3I via a field installable Time Compliance Technical Order (TCTO). Funding for 41 OM interface kits began in FY95. FY96 funding provided funds for equipment upgrades, Interim Contractor Support (ICS) and program support. FY97/98/99 funding continues ICS and MCE program support. Additionally, FY98/99 funding will complete the AF inventory objective for OM interface kits with procurement buys of 33 and 26 in each respective year.

c. **AN/TLQ-32 ANTI-RADIATION MISSILE (ARM) DECOY:** This is an ancillary capability to the AN/TPS-75 radar. FY96-99 funding provides for ICS during warranty period or organic depot capability is established.

d. **AN/ITSC-147 JTIDS MODULE (JM) SYSTEM:** This is an ancillary capability to the MCE. FY97, FY 98, and FY 99 funding will provide for ICS until an organic depot capability is established.



UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

2. **MISSION PLANNING SYSTEM PROGRAM:** This program acquires the Air Force Mission Support System (AFMSS), the single unit-level mission planning system for aircrews of all current/future aircraft and associated weapons. AFMSS is used by aircrews in the squadron to plan combat/training missions and produce Combat Mission Folders (CMF) consisting of maps, charts, flight logs, turn point/target imagery, weapons delivery calculations and radar predictions, and to program the aircraft Data Transfer Device (DTD). A DTD is a magnetic storage media which contains avionics, navigation, fire control computer, communications and electronic combat information. The DTD is used to program aircraft computers in seconds vice the minutes it would take the pilot to manually enter mission data. Wartime sortie rates, sophisticated aircraft avionics, first look/no collateral damage target destruction, precision/autonomous guided munitions planning/delivery and the ability to defeat complex threat systems required a computer-aided mission planning system to maximize the combat effectiveness of all current and future aircraft/weapon systems. AFMSS interfaces with theater, command and joint command, control and intelligence systems/data bases, e.g., Contingency Theater Automated Planning System (CTAPS), Sentinel Byte, Constant Source, Wing Command and Control System (WCCS), and the Automated Weather Distribution System (AWDS), to provide pilots with the required operations, intelligence, weather, weapons and electronic combat information to plan combat missions.

The current inventory objectives for AFMSS are: (a) fixed workstations - 614; and (b) portable workstations - 2203. FY96-99 includes funding for program management administrative (PMA) requirements for technical, engineering, and acquisition support for the Mission Planning System and FY96-99 funds provide funding for engineering change proposals (ECP's). Additionally, FY96 funding procured 92 fixed AFMSS workstations and 24 portable workstations. FY97 funding will procure 62 fixed workstations and begin retrofit of 112 previously procured fixed workstations. Retrofit of these workstations will provide smaller footprint (requires less floor space) and/or faster computer processor units (CPUs). FY98 will procure 11 fixed workstations and 319 portables. FY99 continues AFMSS procurement with 13 fixed workstations and 307 portable workstations. Through FY99, a total of 565 fixed and 832 portable workstations will have been procured.

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

3. ANG/AFR:

**MISSION PLANNING**

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	21		3.300	21		3.300
FY97	0		0	0		0
FY98	62		3.000	62		3.000
FY99	62		3.100	62		3.100

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UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)																
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.					D. DATE FEBRUARY 1997											
B. WEAPON MODEL/SERIES/ POPULAR NAME  THEATER AIR CONTROL SYSTEM IMPROVEMENTS					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A											
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT																
Weapon System Cost Elements					FY 1996			FY 1997			FY 1998			FY 1999		
					IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME THEATER AIR CONTROL SYSTEM IMPROVEMENTS		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

2. MISSION PLANNING SYSTEM PROGRAM											
FIXED WORKSTNS	A	92	150	13,800	62	176	10912	11	181	13	2,418
RETROFIT FIXED WORKSTNS	A				112	33	3,696				
PORT. WORKSTNS	A	24	42	1,008				319	35	307	10,745
ECPS				1,033			1,036				803
PROG/ENGR SPT				822			1,740				1,477
TOTAL				24,348			21,533				36,830

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE THEATER AIR CONTROL SYSTEM IMPROVEMENTS						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. GTACS										
A. MCE EQUIPMENT FY96	MULTIPLE 1	OPT/FFP 1	AFMC/ESC	JUN - JUL 96	SEP - OCT 96	VAR	N/A			
B. OM INTERFACE KITS FY98	LITTON DATA SYS	OPT/FFP (ID/IQ) 2	AFMC/SM-ALC	NOV 97	APR 98	33	575	YES	NO	
FY99	LITTON DATA SYS AGOURA HILLS, CA	OPT/FFP (ID/IQ) 2	AFMC/SM-ALC	OCT 98	MAR 99	26	660	YES	NO	
C. D-ICS: NO ENTRY										
2. MISSION PLANNING SYSTEM PROG										
FIXED/RETROFIT FIXED WORKSTATIONS										
FY96	LOCKHEED SANDERS	OPT/CPFF 3	AFMC/ESC	JUL 96	JAN 97	92	150			
FY97	LOCKHEED SANDERS	OPT/CPFF 3	AFMC/ESC	APR 97	OCT 97	62	176	YES	NO	
FY98	LOCKHEED SANDERS	OPT/CPFF 3	AFMC/ESC	DEC 97	JUL 98	11	181	YES	NO	
FY99	LOCKHEED SANDERS NASHUA, NH	OPT/CPFF 3	AFMC/ESC	DEC 98	JUL 99	13	186	YES	NO	

## D. REMARKS

1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYVALE, CA, AND DEC, NASHUA, NH.
2. OPTION TO FY95 CONTRACT WITH LITTON DATA SYSTEMS FOR OM INTERFACE KITS.
3. AFMSS BLOCK 'C' PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19628-93-C-0016, DEC 92.

P-1 SHOPP LIST ITEM NO. 43		PAGE NO. 10	Exhibit P-5a Procurement History and Planning
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## THEATER AIR CONTROL SYSTEM IMPROVEMENTS

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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## PORTABLE WORKSTATIONS

FY96

LOCKHEED  
SANDERS

OPT/CPFF 4

AFMC/ESC

MAY 96

JAN 97

24

42

FY98

LOCKHEED  
SANDERS

OPT/CPFF 4

AFMC/ESC

DEC 97

JUN 98

319

35

YES

NO

FY99

LOCKHEED  
SANDERS

OPT/CPFF 4

AFMC/ESC

DEC 98

JUN 99

307

35

YES

NO

NASHUA, NH

## D. REMARKS

1. OPTIONS TO MULTIPLE ESC CONTRACTS. VENDORS INCLUDE SUN, SUNNYSVALE, CA, AND DEC, NASHUA, NH.
2. OPTION TO FY85 CONTRACT WITH LITTON DATA SYSTEMS FOR OM INTERFACE KITS.
3. AFMSS BLOCK 'C' PRODUCTION OPTIONS AWARDED OFF LOCKHEED SANDERS R&D CONTRACT #F19828-93-C-0016, DEC 92.

Exhibit P-5a Procurement History and Planning

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FY99/99 PB		S I E C R E V		PROC ACCT BAL		P-1 ITEM NOMENCLATURE												THEATER AIR CONTROL SYSTEM IMPROVEMENTS												DATE:		FEBRUARY 1997												FISCAL YEAR 99												LAT ER																							
ITEM/MFG		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
PROCUREMENT YEAR		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
2. MISSION PLING #		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FIXED		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY96		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY97		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY98		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY99		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
TOTAL - FIXED		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
PORT. WORKSTN		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY96		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY98		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
FY99		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
TOTAL - PORTABLE		REAR		QTY		DUE		FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99												FISCAL YEAR 99											
MANUFACTURER'S NAME AND LOCATION		PROD RATES		REAR		CH 10+		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP												OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																																															
# LOCKHEED SANDERS		MIN		MAX		CH 10+		ADMIN LEAD TIME												MANUFACTURING TIME												TOTAL AFTER 1 OCT																																															
NASHUA, NH		PR 1 OCT		AFT 1 OCT		PR 1 OCT		PR 1 OCT												AFT 1 OCT												PR 1 OCT																																															
FIXED		1		50		REORDER		INITIAL												REORDER												INITIAL																																															
PORT. WORKSTN		1		67		REORDER		INITIAL												REORDER												INITIAL																																															
P-1 SHOPPING LIST ITEM NO.		30409216		43		P-1 SHOPPING LIST ITEM NO.		P-1 SHOPPING LIST ITEM NO.												P-1 SHOPPING LIST ITEM NO.												P-1 SHOPPING LIST ITEM NO.																																															
PAGE OF		P-21		PAGES		PAGES		PAGES												PAGES												PAGES																																															

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FY99/99 PB		P-1 ITEM NOMENCLATURE		THEATER AIR CONTROL SYSTEM IMPROVEMENTS		DATE: FEBRUARY 1997		FISCAL YEAR 01		FISCAL YEAR 02		LAT	
ITEM/MFG		S I		PROC ACQPT		BAL		FISCAL YEAR 00		FISCAL YEAR 01		FISCAL YEAR 02	
PROCUREMENT YEAR		E C		QTY		DUE		CALENDAR YEAR 00		CALENDAR YEAR 01		CALENDAR YEAR 02	
2. MISSION PLNG #		R E		1-Oct		1-Oct		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP	
FIXED		V											
FY96		AF		92		0							
FY97		AF		62		0							
FY98		AF		11		0							
FY99		AF		13		0							
TOTAL - FIXED				178		0							
PORT. WORKSTN													
FY96		AF		24		0							
FY98		AF		319		-2							
FY99		AF		307		71		55		16			
TOTAL - PORTABLE				650		581		69		55		16	
MANUFACTURER'S NAME AND LOCATION		PROD RATES		RE-				OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP		OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP	
# LOCKHEED SANDERS		MIN		MAX		CH O+		ADMIN LEAD TIME		MANUFACTURING TIME		TOTAL AFTER 1 OCT	
NASHUA, NH								PR 1 OCT		AFT 1 OCT			
FIXED		1		50				INITIAL					
PORT. WORKSTN		1		67				REORDER					
								P-1 SHOPPING LIST ITEM NO.		43		3040P216	
								PAGE		OF		PAGES	
								EXHIBIT		P-21			

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE				
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		WEATHER OBSERVATION/FORECAST						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	8.873	17.944	18.013	22.049	29.686	28.558	30.549	31.419

This is a continuing program for acquisition of meteorological and space environmental equipment needed to support worldwide missions of the Air Force (AF), the Army, and unified commands. Included are both fixed and transportable equipment needed to provide observing and forecasting services at the base or post and for field deployments; fixed hardware to provide centralized analyses, forecasts, and climatological assessments to decision-makers at all levels; and both fixed and tactical dedicated weather communications equipment to support weather services. Major programs include the Tactical Observing and Forecasting System (TOFS), which will provide a lightweight first-in combat forecasting capability; the Air Force Combat Climatology Center (AFCCC), which provides climatological support to DoD customers worldwide; a Tactical Weather Radar (TWR) acquisition that fills critical weather radar needs for resource protection worldwide; and the Space Weather Analysis and Forecast System (SWAFS), which gives operators the ability to effectively use space weather data.

1. **TACTICAL OBSERVING AND FORECASTING SYSTEM (TOFS):** TOFS is a system that will give deployed weather forces the capability to manipulate data and disseminate weather forecasts, advisories, warnings, briefings, and current weather information to Air Operations Centers, flying squadrons, air traffic control facilities, deployed weather teams, and Army elements located within theater of operations. TOFS has two components: the Tactical Forecast System (TFS) and the Manual Observing System (MOS).

The TFS is a small-lightweight deployable "first-in" combat weather forecast capability. The TFS will consist of government furnished software and commercial off-the-shelf hardware. The system will receive data via theater deployable communications, satellite communications, or will be able to operate in a stand-alone configuration receiving weather data through DoD weather dial-in services. The TFS will replicate most home station operations, enhancing operator proficiency and minimizing the need for special training. The TFS will replace large, error prone systems that have dissimilar components. The total Air Force requirement is 306. FY97 funds begin procurement of TFS with 65 systems to provide deployed commanders with reliable weather information impacting critical combat operations. FY98 funds 50 systems; FY99 funds 37 systems. One-hundred fifty-two systems will be procured through FY99.

MOS is a single-person portable observing system containing essential basic observing equipment with procurement beginning with FY95 funds. FY96, FY98 and FY99 funds continue the procurement toward the total Air Force requirement of 400. One-hundred sixty-nine systems will have been procured through FY99. Outyear funding continues the program.

2. **AIR FORCE COMBAT CLIMATOLOGY CENTER (AFCCC) REPLACEMENT (AFCCC-R):** The AFCCC-R (formerly called the Environmental Technical Applications Center Replacement (ETAC-R)) program will replace/upgrade the computer systems required at AFCCC (Scott AFB, IL), Operating Location-A (OL-A), AFCCC (Asheville, NC) and at Air Force Global Weather Center (AFGWC) (Offutt AFB, NE). AFCCC-R provides improved climatological support to DoD customers worldwide, providing the climatological support required by Air Force and Army planners, Air Force weapon systems developers, and defense modeling and simulation activities. Funding will provide life-cycle replacements for computer systems hardware and will enhance computer systems processing and storage capabilities needed to meet customer requirements. AFCCC mainframes will be replaced with open systems architecture. The program began in FY96 by

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		WEATHER OBSERVATION/FORECAST						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

replacing AFCCC computer hardware/software. FY97 funds will replace OL-A computer hardware/software and upgrade the AFGWC centralized data base. FY98 funds complete procurement of hardware and contractor data and installation of the system.

3. **HYPERCHANNEL REPLACEMENT:** The HYPERchannel is a proprietary high capacity local area network (LAN) at the Air Force Global Weather Center (AFGWC) (Offutt AFB, NE) which provides data communications between AFGWC's mainframe computer systems and peripheral devices. Funding will procure the hardware and associated software to replace the existing computer-to-computer communications links that were installed in 1984 and are nearing the end of their technical life span. The network has become saturated with traffic, causing product delays. AFGWC risks network failure, severely impairing their ability to meet warfighter requirements for weather information. Further, the existing HYPERchannel does not have the capacity to meet the projected requirements for higher density data products (temperature, humidity, wind fields, and clouds) required to support Theater Battle Management (TBM) requirements. This is a FY97 procurement with no FY98-99 funds requested.

4. **CLOUD DEPICTION AND FORECAST SYSTEM (CDFS) II:** CDFS II provides hourly, high resolution, worldwide cloud analyses and forecasts to all operational forces worldwide. Funding purchases equipment to replace logistically unsupportable mainframe computers at the Air Force Global Weather Center (AFGWC) (Offutt AFB, NE) and will upgrade satellite data processing, cloud depiction, and classified weather support functions for operational commanders and national programs, meeting a need that cannot be met with the current system. FY98 funds begin the procurement by buying interface and cloud analysis hardware and associated software. FY99 funds will procure the cloud forecast hardware/software plus the network and integration required for the system. Outyear funding continues the program.

5. **GLOBAL THEATER WEATHER ANALYSIS AND PREDICTION SYSTEM (GTWAPS):** GTWAPS replaces the computer hardware and software that comprise the Advanced Weather Analysis and Prediction System (AWAPS) located at AFGWC (Offutt AFB, NE). The primary purpose of GTWAPS is to improve support to the warfighter by incorporating an advanced computing platform, allowances for capacity expansion, state-of-the-science theater-scale analysis and forecast software, the capability to ingest and use classified observations, and forecast products consistent with Theater Battle Management (TBM) requirements. FY98 funds the total hardware procurement upgrade.

6. **SPACE WEATHER ANALYSIS AND FORECAST SYSTEM (SWAFS):** SWAFS will replace the aging and logistically unsupportable hardware and software currently located at the 50th Weather Squadron (50WS) (Peterson AFB, CO), and will transition the proprietary space weather system to an open system environment. The 50WS is unique--DoD's only center with equipment and expertise for providing observations, analyses, and forecasts of the space environment in support of DoD and National Programs. The upgrade will replace four separate computer clusters over a three-year time-frame while sustaining continuous operational availability during this intensive effort. It will integrate near term Space Environmental Technology Transition (SETT) models, currently under

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE</b>
<b>APPROPRIATION/BUDGET ACTIVITY</b>			<b>P-1 ITEM NOMENCLATURE</b>				
<b>OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT</b>			<b>WEATHER OBSERVATION/FORECAST</b>				
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY							
COST (In Mil)							

development, and future advanced-physics SETT models into the operational system. SWAFS modernizes 50WS and accomplishes the following: the transition from the Automatic Digital Information Network (AUTODIN) to the Defense Message System (DMS); compliance with DoD information technology standards such as the Defense Information Infrastructure (DII) Common Operating Environment (COE); and interoperability with Global Command and Control System (GCCS). FY98 funds start the procurement with additional computer processing and disk storage capacity to support solar maximum. FY99 funds will replace computer clusters and re-host software. Outyear funding continues the program.

7. **SATELLITE DATA HANDLING SYSTEM (SDHS):** SDHS is a fixed suite of forecaster workstations within Air Force Global Weather Center (AFGWC) which provides the global, large scale satellite data information to DoD customers worldwide. It incorporates weather satellite imagery and weather observations to allow forecasters to produce analysis and forecast weather products for worldwide DoD missions. SDHS is the key tool forecasters use to produce tailored, highly detailed mission planning and operational forecasts for routine, contingency, and classified DoD operations. The current SDHS system does not have the capability to ingest satellite data from foreign sources, thus restricting access to a readily available worldwide weather data base. This upgrade will allow SDHS to receive, store, archive, and process new sources of foreign geostationary satellite data, which will be used to tailor operational forecasts for warfighters worldwide. FY98 funds the computer hardware required for this effort and completes the upgrade.

8. **TACTICAL WEATHER RADAR (TWR)**: This program supports worldwide military operations by providing tactical/deployable Doppler weather radar capability, replacing existing radars at deployable locations and at fixed locations overseas. Current deployable (TPS-68) and fixed weather radars (FPQ-21, FPS-77) have been declared logistically unsupportable and no longer meet operational needs. The TWR provides the combat forces a modern, Doppler radar technology and will allow connectivity to programmed weather forecast systems for the distribution of severe weather products to standard C4I systems. FY98 funds begin procurement with the purchase of two radars for Operational Test and Evaluation (OT&E)--one tactical and one fixed. FY99 dollars purchase three tactical radars. Outyear funding continues the program, with a total inventory objective of seven tactical, one training, and 11 fixed radars.

9. **INTERIM TACTICAL WEATHER RADAR (ITWR):** This is a program for acquisition of ITWRs to meet immediate contingency weather support requirements in Southwest Asia and Bosnia. FY96 funds three systems for Southwest Asia and a training system to be located at the Combat Weather Center, Hurlburt Field, FL. FY96 procurement completes the Southwest Asia buy.

10. **AUTOMATED SURFACE OBSERVING SYSTEMS (ASOS):** This program provides limited automated weather observations at ranges, unattended airfields, and after duty hours at limited duty weather stations at sites in the continental US. The funding is a congressional add to purchase 12 systems in FY97. FY97 funding completes the 12 system buy.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE				FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				WEATHER OBSERVATION/FORECAST					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

11. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96	-		0	-		0
FY97	-		.082	-		0
FY98	-		.366	-		0
FY99	-		.8	-		0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)												D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME WEATHER OBSERVATION/FORECAST		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A									
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999					
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST		
1. TOFS TFS PRIME MISSION EQ TECHNICAL DATA ENG/PROGRAM MGT MOS PRIME MISSION EQ	A	VAR	(761)	VAR	N/A	(4,965)	VAR	N/A	(4,324)	VAR	(3,009)		
				65	62	4,030	50	62	3,100	37	2,294		
						480			357		289		
						455			367		255		
		84	761				55	9	500	19	171		
2. AFCCC-R PRIME MISSION EQ TECHNICAL DATA ENG/PROG MGT	A	VAR	(6,247) 4,972 1,275	VAR	N/A	(6,198) 4,219 1,239 740	VAR	N/A	(2,493) 1,426 201 866				
3. HYPERCHANNEL REPLACEMENT PRIME MISSION EQ TECHNICAL DATA ENG/PROG MGT	A	VAR	(2,781) 1,975 332 474	VAR	N/A								

P-1 SHOPP LIST ITEM NO. 44		PAGE NO. 19	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME WEATHER OBSERVATION/FORECAST		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A		FY 1996		FY 1997		FY 1998		FY 1999		
Weapon System Cost Elements		IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

4. CDFS-II PRIME MISSION EQ ENG/PROG MGT	A											VAR	N/A	(4,400)	VAR	N/A	(7,570)
														3,781			5,761
														619			1,809
5. GTWAPS PRIME MISSION EQ TECHNICAL DATA ENG/PROG MGT	A											VAR	N/A	(3,796)			
														3,020			
														276			
														500			
6. SWAFS PRIME MISSION EQ TECHNICAL DATA ENG/PROG MGT	A											VAR	N/A	(1,500)	VAR	N/A	(10,093)
														846			9,393
														110			180
														544			520
7. SDHS PRIME MISSION EQ ENG/PROG MGT	A											VAR	N/A	(600)			
														550			
														50			

P-1 SHOPP LIST ITEM NO. 44		PAGE NO. 20	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME WEATHER OBSERVATION/FORECAST			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A										
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					FY 1996			FY 1997			FY 1998			FY 1999	
Weapon System Cost Elements		IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

8. TWR	A											
PRIME MISSION EQ												
ENG/PROG MGT												
9. ITWR	A	4	466	(1,865)								
PRIME MISSION EQ												
10. ASOS	A											
PRIME MISSION EQ												
ENG/PROG MGT												
TOTAL				8,873			17,944			18,013		22,049

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## WEATHER OBSERVATION/FORECAST

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
------------------------------	-------------------------	------------------------------	------------------	---------------	------------------------------	----------	--------------	-----------------------	----------------------	--------------------------

1. TOFS  
TFS

FY97  
FY98  
FY99

LOCKHEED MARTIN  
LOCKHEED MARTIN  
LOCKHEED MARTIN  
COLORADO SP, CO

OPT/CPFF 1  
OPT/CPFF 1  
OPT/CPFF 1

AFMC/ESC  
AFMC/ESC  
AFMC/ESC

JAN 97  
JAN 98  
JAN 99

APR 97  
APR 98  
APR 99

65  
50  
37

62  
62  
62

YES  
YES  
YES

NO  
NO  
NO

## MOS

FY96  
FY98  
FY99

LITTON  
LITTON  
LITTON  
WINDSOR, CT

C/FFP  
OPT/FFP  
OPT/FFP

HQ AWS  
HQ AWS  
HQ AWS

AUG 96  
OCT 97  
OCT 98

JAN 97  
JAN 98  
JAN 99

84  
55  
19

9  
9  
9

YES  
YES  
YES

NO  
NO  
NO

## 2. AFCCC-R

FY96  
FY97  
FY98

HUGHES CORP  
HUGHES CORP  
HUGHES CORP  
OMAHA, NE

OPT/FPIF 2  
OPT/FPIF 2  
OPT/FPIF 2

AFMC/ESC  
AFMC/ESC  
AFMC/ESC

AUG 96  
OCT 96  
OCT 97

NOV 96  
JAN 97  
NOV 98

VAR  
VAR  
VAR

N/A 3  
N/A 3  
N/A 3

YES  
YES  
YES

NO  
NO  
NO

3. HYPERCHANNEL REPLACEMENT  
FY97

UNKNOWN

C/CPFF

HQ AWS

FEB97

JUN 97

VAR

N/A 3

NO

YES

## D. REMARKS

- OPTION TO EXISTING STANDARD AIR FORCE WORK STATION CONTRACT.
- OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY SACRAMENTO AIR LOGISTICS CENTER, SACRAMENTO, CA.
- UNIT COSTS VARY ACCORDING TO COMPUTER HARDWARE BEING PROCURED.
- OPTION TO BASIC CDFS II CONTRACT FOR HARDWARE, SUPPORT AND SERVICES AWARDED IN JUN 95.
- SDHS SUPPORT & SERVICES CONTRACT RECOMPETED IN NOV 96. FY98 OPAF FUNDING WILL BE EXECUTED AS A TASK ORDER ON THIS CONTRACT.

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Exhibit P-5a Procurement History and Planning

## UNCLASSIFIED

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE WEATHER OBSERVATION/FORECAST						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. CDFS II	FY98 FY99	STERLING CORP STERLING CORP BELLVUE, NE	OPT/CPAF 4 OPT/CPAF 4	AFMC/SMC AFMC/SMC	OCT 97 OCT 98	SEP 99 SEP 00	VAR VAR	N/A 3 N/A 3	YES YES	NO NO
5. GTWAPS	FY98	UNKNOWN	C/FPF	JUL 98	NOV 99	VAR	VAR	N/A 3	NO	YES SEP 97
6. SWAFS	FY98 FY99	UNKNOWN UNKNOWN	C/FPF OPT/FPF	NOV 97 OCT 98	SEP 98 SEP 99	VAR VAR	VAR VAR	N/A 3 N/A 3	NO NO	YES YES MAY 97 MAY 97
7. SDHS	FY98	STERLING CORP BELLVUE, NE	OPT/CPAF 5	HQ AWS	OCT 97	APR 98	VAR	N/A 3	YES	NO
8. TWR	FY98 FY99	UNKNOWN UNKNOWN	C/FFP OPT/FFP	AFMC/ESC AFMC/ESC	JUN 98 OCT 98	DEC 98 JUN 99	2 3	400 400	NO NO	YES YES JAN 98 JAN 98
9. ITWR	FY96	GSA/ KAVOURAS, INC MINNEAPOLIS MN	MIPR/OPT/ FFP	HQ AWS	AUG 96	JAN 97	4	466		
10. ASOS	FY97	AAI HUNT VALLEY, MD	MIPR/OPT/ FFP	HQ AWS	OCT 96	JUL 97	12	291		

## D. REMARKS

- OPTION TO EXISTING STANDARD AIR FORCE WORK STATION CONTRACT.
- OPTION TO ADVANCED TECHNOLOGY SYSTEMS PROGRAM CONTRACT ADMINISTERED BY SACRAMENTO AIR LOGISTICS CENTER, SACRAMENTO, CA.
- UNIT COSTS VARY ACCORDING TO COMPUTER HARDWARE BEING PROCURED.
- OPTION TO BASIC CDFS II CONTRACT FOR HARDWARE, SUPPORT AND SERVICES AWARDED IN JUN 95.
- SDHS SUPPORT & SERVICES CONTRACT RECOMPETED IN NOV 96. FY98 OPAF FUNDING WILL BE EXECUTED AS A TASK ORDER ON THIS CONTRACT.

Exhibit P-5a Procurement History and Planning

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE STRATEGIC COMMAND AND CONTROL					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)	38.290	22.680	20.505	10.898	18.671	20.410	13.888		10.447

This program procures mission critical communications and computer systems required to ensure that the President of the United States has the capability for effective command and control of the Twin Triad (nuclear and conventional). It procures hardware replacements/upgrades to maintain the only computer system that produces the nation's nuclear war plan, and performs conventional/confingency war planning. In addition, it provides computer systems essential for the B-2 weapon system to maintain mission ready status.

1. **STRATEGIC WAR PLANNING SYSTEM (SWPS):** This funding continues the program that maintains a planned, phased upgrade of the Strategic War Planning System. SWPS is one of the DoD's most complex, classified computer systems and the only system that produces the Single Integrated Operational Plan (SIOP) which targets every strategic nuclear warhead in the US inventory. The system performs tasks ranging from running threat scenarios on mainframes to providing data for developing bomber aircraft crews strike mission data in digital and hard copy formats. Production/maintenance of the SIOP is performed on the TRIAD Computer System (TRICOMS), which consists of two mainframe computers and associated equipment. FY96 funding provided further upgrades to TRICOMS servers, workstations, processors, printers and plotting equipment. FY97 funds procured additional required servers, storage devices and associated support equipment. In FY98 and FY99, the servers and associated peripheral equipment needed to complete the transition from a mainframe to a client-server environment will be purchased. Additionally, replacements for outdated PCs and workstations will be bought.

2. **B-2 SUPPORT:** The B-2 weapon system relies heavily on computers and communications equipment to meet its operational/design capability. These funds support the following B-2 dedicated systems:

a. **ENGINEERING DATA SYSTEM (EDS):** EDS provides essential computers (engineering workstation computers, printers, disk drives, tape drives, etc.) along with communications equipment necessary for on-line access to all available B-2 weapon system databases. The data available will consist of engineering analysis/design and manufacturing data, tool drawings, and specification software milestone documentation. Access will be provided to Langley AFB, VA, Whiteman AFB, MO, Wright-Patterson AFB, OH, Oklahoma City ALC, other ALC's and Northrup Grumman Corp in CA. FY96/97 funds provided upgrades to these locations through purchase of commercial off-the-shelf (COTS) hardware (workstations, scanners, plotters, printers) and associated software. FY98/99 funds will be used to complete the migration of equipment replacement on the expanded unclassified net.

b. **WEAPON SYSTEM SUPPORT CENTER (WSSC):** The WSSC provides the hardware means for the B-2 engineering team to perform software maintenance on all operational flight programs for the B-2 weapon system and aircraft hardware and software integration for such elements as flight controls, flight management, navigation systems, weapons, and defensive systems management. WSSC will be used by Oklahoma City ALC to provide organic software support and integration of the B-2 weapon system. The Software Development Station (SDS) is part of the WSSC and consists of a digital virtual accessing extended (VAX) computer located at Tinker AFB, OK; it assists engineers in analyzing and designing operational flight programs. FY96/97 funds procured

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		STRATEGIC COMMAND AND CONTROL							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

upgrades/enhancements/expansion of equipment (computer hardware, terminals, printers, drivers, workstations, and associated software) for the SDS. This increased capability will handle additional workload and preclude system saturation. FY98 funds will procure computer upgrades and enhancements to existing computer equipment, i.e., computer hardware, terminals, printers, disk and tape drives, workstations, commercial software, etc. The funds are required for hardware upgrades and enhancements to existing software laboratories relocated as part of the long term software support effort. FY99 funds will continue equipment upgrades to the laboratories.

c. **ONBOARD TEST SYSTEM (OBTS) SWITCHING EQUIPMENT:** Funding provides critical electronic integration for the onboard test system (OBTS) ground processor (OGP). OBTS will allow technicians computer access to vital fault data obtained during aircraft flights. FY96-99 funding continues procurement for replacement computers and associated support equipment for the OBTS system.

d. **WHITEMAN AFB SUPPORT:** FY96 funds procured various computerized processing systems in support of B-2 operations at Whiteman AFB, MO. No FY98/99 funding requested.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME  STRATEGIC COMMAND AND CONTROL				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A						
Weapon System Cost Elements			FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
OPA/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT													

1. SWPS														
TRICOMS	A	VAR		N/A	1,779	VAR	N/A	3,666	VAR	N/A	9,617	VAR	N/A	4,614
2. B-2 SUPPORT														
a. EDS	A	VAR		N/A	(36,511)	VAR	N/A	(19,014)	VAR	N/A	(10,888)	VAR	N/A	(6,284)
b. WSSC	A				3,280			1,690			5,000			1,490
c. OBTS SWITCHING EQ	A				9,720			7,985			5,851			4,757
d. WHITEMAN AFB SUPT	A				639			34			37			37
e. ITDS	A				256			9,305						
					22,616									
TOTAL					38,290			22,680			20,505			10,898

P-1 SHOPP LIST ITEM NO. 45			PAGE NO. 26			Exhibit P-5 Weapon System Cost Analysis					
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## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE							STRATEGIC COMMAND AND CONTROL			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

## 1. STRATEGIC WAR PLANNING SYSTEM

## TRICOMS

GENERAL DYNAMICS  
GENERAL DYNAMICS  
GENERAL DYNAMICS  
GENERAL DYNAMICS  
BELLEVUE, NE

OPT/FP1  
OPT/FP1  
OPT/FP1  
OPT/FP1

HQ STRATCOM  
HQ STRATCOM  
HQ STRATCOM  
HQ STRATCOM

DEC 95  
OCT 96  
DEC 97  
DEC 98

MAR 96  
FEB 97  
FEB 98  
FEB 99

VAR  
VAR  
VAR  
VAR

N/A<sup>2</sup>  
N/A<sup>2</sup>  
N/A<sup>2</sup>  
N/A<sup>2</sup>

YES  
YES  
NO  
NO

## 2. B-2 SUPPORT

## A. ENGINEERING DATA SYSTEM (EDS)

MULTIPLE  
MULTIPLE  
MULTIPLE  
MULTIPLE

OPT/FP3  
OPT/FP3  
OPT/FP3  
OPT/FP3

AFMC/OC-ALC  
AFMC/OC-ALC  
AFMC/OC-ALC  
AFMC/OC-ALC

APR 96  
JAN 97  
OCT 97  
MAR 99

MAY 96  
APR 97  
JAN 98  
APR 99

VAR  
VAR  
VAR  
VAR

N/A<sup>2</sup>  
N/A<sup>2</sup>  
N/A<sup>2</sup>  
N/A<sup>2</sup>

YES  
YES  
NO  
NO

B. WPN SYS SUPPORT CENTER  
(WSSC)

MULTIPLE  
MULTIPLE  
MULTIPLE  
MULTIPLE

OPT/FP3  
OPT/FP3  
OPT/FP3  
OPT/FP3

AFMC/OC-ALC  
AFMC/OC-ALC  
AFMC/OC-ALC  
AFMC/OC-ALC

JUN 96  
MAR 97  
MAR 98  
MAR 99

AUG 96  
JUL 97  
JUL 98  
JUL 99

VAR  
VAR  
VAR  
VAR

N/A<sup>2</sup>  
N/A<sup>2</sup>  
N/A<sup>2</sup>  
N/A<sup>2</sup>

YES  
YES  
NO  
NO

## D. REMARKS

- Option to July 89 competitive contract awarded to General Dynamics.
- Varying unit costs due to multiple types of equipment being procured.
- Options to numerous acquisitions off the GSA schedule. Award/delivery dates reflect date of first award and delivery.

Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

COST ELEMENT/  
FISCAL YEARCONTRACTOR/  
LOCATIONCONTRACT  
METHOD  
& TYPECONTRACTED  
BYAWARD  
DATEDATE OF  
FIRST  
DELIVERY

QUANTITY

UNIT  
COSTSPECS  
AVAIL  
NOWSPEC  
REV  
REQ'DIF YES,  
WHEN  
AVAIL

## C. P-1 ITEM NOMENCLATURE

## STRATEGIC COMMAND AND CONTROL

## C. OBTS SWITCHING EQ

FY96

FY97

FY98

FY99

## E. WHITEMAN AFB SUPPORT

MULTIPLE

MULTIPLE

MULTIPLE

MULTIPLE

MULTIPLE

OPT/FP<sup>3</sup>OPT/FP<sup>3</sup>OPT/FP<sup>3</sup>OPT/FP<sup>3</sup>OPT/FP<sup>3</sup>

HQ ACC

HQ ACC

HQ ACC

HQ ACC

HQ ACC

APR 96

JAN 97

JAN 98

JAN 99

AUG 96

JUL 96

APR 97

APR 98

APR 99

OCT 96

VAR

VAR

VAR

VAR

VAR

N/A 2

N/A 2

N/A 2

N/A 2

N/A 2

YES

YES

NO

NO

## D. REMARKS

1. Option to July 89 competitive contract awarded to General Dynamics.
2. Varying unit costs due to multiple types of equipment being procured.
3. Options to numerous acquisitions off the GSA schedule. Award/delivery dates reflect date of first award and delivery.

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Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			CHEYENNE MOUNTAIN COMPLEX						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	8.607	3.083	.737	.920	.989	1.116	.644		.720

This program supports acquisition for Cheyenne Mountain Complex (CMC) missions. It includes both the current suite of equipment and the new Cheyenne Mountain Upgrade (CMU) suite. CMU was established to upgrade and modernize the software, computer resources and related communications for CMC-unique command and control (C2) applications. The CMC program: (1) provides real-time processing and display of missile warning and force management information to the CMC and the Alternate Missile Warning Center, and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) provides communications services for all communications into or out of CMC and between CMC mission processors; (3) replaces the processors and display systems supporting the CMC Air Defense Operations Center (ADOC), North American Aerospace Defense (NORAD) Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) provides an effective command post to support NORAD's multiple warning and defense missions; (5) automates the manual handling of space surveillance and warning messages; (6) provides communications interface processors at all missile warning sensors and command centers; and (7) provides an alternate missile warning center. The program also provides Air Force Space Command (AFSPC) with funding needed to acquire communications and computer equipment in support of US Space Command (USSPACECOM) command centers and sensor systems; AFSPC Base Level Switching systems; the Defense Message System (DMS) and Base Network Control Center (BNCC); USSPACECOM CINC Mobile Alternate Headquarters (CMAH); and the Cheyenne Mountain Training System (CMTS).

- CHEYENNE MOUNTAIN UPGRADE (CMU):** FY96 funding procured missile warning, air warning, and space warning hardware and Interim Contractor Support (ICS). FY97 provides for continued ICS for Granite Sentry hardware maintenance until user organic capability is in place in 1<sup>st</sup> Qtr/FY98. No FY98/99 funding is requested.
- CINC MOBILE ALTERNATE HEADQUARTERS (CMAH):** The CMAH program supports acquisition for NORAD/USSPACECOM Mobile Consolidated Command Center (MCCC) missions. The MCCC provides mobile, austere capabilities to execute NORAD/USSPACECOM missions in the event the Cheyenne Mountain Complex becomes inoperable. The Mobile Command and Control System (MCCS) is the acquisition and integration of automated data processing equipment supporting the MCCC. The MCCS provides a core communication and mission support processing system and consists of an integrated mixture of government-furnished equipment (GFE) and commercial data processing and communications equipment, housed in transportable shelters, and interconnected through a Modular Building Block (MBB) database architecture. FY98-99 will provide funding for support of the Defense Message System (DMS), Global Command and Control System (GCCS), Migration Integrated Database (MIDB) and Survivable Secure Communications Network (SSCN). It will also upgrade current projects such as the Nuclear Planning and Execution System (NPES), Ground Nuclear Detonation Detection System Terminal (GNT), Communications Support Processor (CSP), and Modular Architecture for the Exchange of Intelligence (MAXI).

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CHEYENNE MOUNTAIN COMPLEX					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)									

3. **TACTICAL WARNING AND ATTACK ASSESSMENT (TW/AA) COMMUNICATIONS NETWORK AND AFSPC TELECOMMUNICATIONS:** This program supports AFSPC-wide acquisition of communications equipment for downward-directed programs and command initiatives. This equipment includes (1) smart multiplexers, (2) base cable plants and fiber optics multiplexers, (3) phone system memory upgrades and administrative phone systems not being replaced by the Combat Information Transport System (CITS), (4) Defense Information System Network (DISN) hardware support, (5) administrative communications support for Peterson AFB, CO and Falcon AFB, CO, and (6) command-unique communications equipment to support the Defense Message System (DMS) architecture. FY96-97 funding procures communications equipment for downward-directed and command initiatives, procures communications capability for Missile/Space Operations Centers (MOC/SOC) Command and Control Center, and provides funding for DISN and other bulk-bandwidth initiatives. Additionally, FY96 funding procured administrative telephone switch expansions at Falcon and Peterson AFBs. FY98/99 will provide funding for base infrastructure requirements at multiple AFSPC sites, and supports non-core base infrastructure.

4. **CHEYENNE MOUNTAIN TRAINING SYSTEM (CMTS):** The CMTS is a full mission simulator that provides an integrated capability to support initial and unit qualification training, on-going crew proficiency training, and exercises in missile warning, space control, air defense and command center operations. FY96 funding procured the final phase of space training hardware. No FY98/99 funding requested.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME CHEYENNE MOUNTAIN COMPLEX		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

1. CHEYENNE MOUNTAIN UPGRADE (CMU) HARDWARE ICS	A	VAR	(3,372) 1,619 1,753	N/A	2,620	VAR	N/A	464	VAR	N/A	461
2. CINC MOBILE ALTERNATE HQ (CMAH)	A										
3. TW/AA COMM NETWORK & AFSPC TELECOMMUNICATIONS	A	VAR	2,667	N/A	463	VAR	N/A	273	VAR	N/A	459
4. CHEYENNE MTN TRAINING SYSTEM (CMTS)	A	VAR	2,568								
TOTAL			8,607		3,083			737			920

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## CHEYENNE MOUNTAIN COMPLEX

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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## 1. CMU UPGRADE HARDWARE

FY96

HARRIS CORP

SS/CPAF

AFMC/ESC

AUG 96

VAR

N/A 2

FY96

RESTON, VA

OPT/FFP 1

AFMC/ESC

NOV 96

VAR

N/A 2

FY96

LOCKHEED-MARTIN

OPT/CP/IF/AF 1

AFMC/ESC

NOV 96

VAR

N/A 2

FY96

COLORADO

OPT/CP/IF 1

AFMC/ESC

NOV 96

VAR

N/A 2

FY96

COLORADO

OPT/FP 4

AFMC/ESC

NOV 96

VAR

N/A 2

## 2. CINC MOBILE ALTERNATE HQ (CMAH)

FY98

MULTIPLE 3

OPT/FP 4

AFSPC

FEB 98 5

VAR

N/A 2

FY99

MULTIPLE 3

OPT/FP 4

AFSPC

FEB 99 5

VAR

N/A 2

## D. REMARKS

1. OPTIONS TO VARIOUS AFMC/ESC CONTRACTS AWARDED IN SUPPORT OF CMU.
2. MULTIPLE TYPES OF EQUIPMENT BEING PROCURED RESULTS IN VARYING UNIT COSTS.
3. CONTRACTOR EXAMPLES: INEL CORP, IDAHO FALLS, ID; MARTIN MARIETTA CORP, DENVER, CO; DEPT OF ENERGY, SANDIA NATIONAL LABORATORIES.
4. OPTIONS TO VARIOUS DEFENSE ELECTRONICS COMMERCIAL COMMUNICATIONS OFFICE (DECCO) COMPETITIVE FIXED PRICE CONTRACTS AWARDED IN 1989.
5. AWARD AND DELIVERY DATES REPRESENT DATE OF FIRST CONTRACT AWARD AND FIRST DELIVERY.
6. OPTION TO PRIOR YEAR FIRM FIXED PRICE CONTRACT AT ELECTRONIC SYSTEMS CENTER, HANSCOM AFB MA, WITH LORAL SYSTEMS, COLORADO SPRINGS, CO.

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Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

#### C. P-1 ITEM NOMENCLATURE

#### CHEYENNE MOUNTAIN COMPLEX

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### 3. TW/AA COMM NETWORK AND AFSPC TELECOMMUNICATIONS

FY96	MULTIPLE 3	OPT/FP 4	HQ AFSPC	FEB 96 5	JUL 96 5	VAR	N/A 2			
FY97	MULTIPLE 3	OPT/FP 4	HQ AFSPC	MAR 97 5	AUG 97 5	VAR	N/A 2	YES	NO	
FY98	MULTIPLE 3	OPT/FP 4	HQ AFSPC	MAR 98 5	AUG 98 5	VAR	N/A 2	YES	NO	
FY99	MULTIPLE 3	OPT/FP 4	HQ AFSPC	MAR 99 5	AUG 99 5	VAR	N/A 2	YES	NO	

#### 4. CHEYENNE MTN TRAINING SYS (CMTS)

FY96	LORAL SYSTEMS COLORADO SP, CO	OPTION 6	HQ AFSPC	DEC 95	MAY 96	VAR	N/A 2			
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#### D. REMARKS

1. OPTIONS TO VARIOUS AFMC/ESC CONTRACTS AWARDED IN SUPPORT OF CMU.
2. MULTIPLE TYPES OF EQUIPMENT BEING PROCURED RESULTS IN VARYING UNIT COSTS.
3. CONTRACTOR EXAMPLES: INEL CORP, IDAHO FALLS, ID; MARTIN MARIETTA CORP, DENVER, CO; DEPT OF ENERGY, SANDIA NATIONAL LABORATORIES.
4. OPTIONS TO VARIOUS DEFENSE ELECTRONICS COMMUNICATIONS OFFICE (DECCO) COMPETITIVE FIXED PRICE CONTRACTS AWARDED IN 1988.
5. AWARD AND DELIVERY DATES REPRESENT DATE OF FIRST CONTRACT AWARD AND FIRST DELIVERY.
6. OPTION TO PRIOR YEAR FIRM FIXED PRICE CONTRACT AT ELECTRONIC SYSTEMS CENTER, HANSCOM AFB MA, WITH LORAL SYSTEMS, COLORADO SPRINGS, CO.

Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE FEBRUARY 1997						
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		TACTICAL SIGINT SUPPORT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.838	5.817	4.114	4.735				

The Tactical SIGINT program procures a variety of communications-electronics equipment and support necessary to operate and maintain tactical cryptologic programs involved in ground-based operations in the European and Pacific theaters as well as CONUS contingency and training programs. Funding also procures equipment to support ground processing functions associated with airborne operations.

**TACTICAL INFORMATION BROADCAST SERVICE (TIBS) IMPROVEMENTS:** This is a continuing acquisition program which procures equipment, associated software and peripherals to support the fielding of multi-sensor, multi-source intelligence correlation capabilities for TIBS. TIBS is a secret collateral level, near real-time, intelligence broadcast that provides situational awareness and combat information in graphics format to multi-service tactical customers worldwide. TIBS performs combat correlation functions for aggregation of internally derived information from indigenous collection assets, as well as multiple external intelligence sources. TIBS is able to exchange graphics-based near real-time information with Air Force tactical intelligence platforms. TIBS provides dissemination of highly perishable threat or target information to a theater or Area of Operation (AOR) audience. HQ Air Intelligence Agency (AIA) TIBS Special Management Office (TIBS SMO) is the program manager for the TIBS Program. As such, the TIBS SMO sets acquisition requirements for TIBS to include the following: software and hardware upgrades for the worldwide network architecture, new service (Army, Navy, Air Force) changes, documentation and equipment for training. The TIBS SMO will acquire TIBS equipment through the BIG SAFARI program, which is managed by Air Force Materiel Command. FY96 funding procured computers and associated equipment to satisfy joint requirements for interoperability for the TIBS system and procures the equipment required to use TIBS for exercise scenario generation. FY97 begins funding for procurement and integration of equipment and associated software to fuse intelligence data obtained from multiple sources to improve TIBS ability to provide an integrated intelligence picture to tactical users. FY98 funds will continue intelligence fusion efforts and add error code correction features. FY99 will begin funding for a multi-level security capability for TIBS.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME TACTICAL SIGINT SUPPORT				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		
Weapon System Cost Elements											

TIBS IMPROVEMENTS	A	VAR	N/A	(5,838)	VAR	N/A	(5,817)	VAR	N/A	(4,114)	VAR	N/A	(4735))
COMPUTER EQUIPMENT		VAR	N/A	3,000	VAR	N/A	3,000	VAR	N/A	2,400	VAR	N/A	3,000
DOCUMENTATION				800			800			650			700
PROGRAM SUPPORT				2,038			2,017			1,064			1,035
TOTAL				5,838			5,817			4,114			4,735

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				TACTICAL SIGINT SUPPORT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

TIBS IMPROVEMENTS													
COMPUTER EQUIPMENT													
FY96	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645 MATS	MULTI 1	MULTI 1	VAR	N/A 2						
FY97	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645 MATS	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO				
FY98	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645 MATS	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO				
FY99	E-SYSTEMS GREENVILLE, TX	SS/FPIF	AFMC/645/MATS	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO				

D. REMARKS:													
1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF COMPUTER EQUIPMENT/UPGRADES.													
2. MULTIPLE ELEMENTS OF UPGRADES AND REPLACEMENTS CAUSE UNIT COSTS TO VARY BY YEAR.													
P-1 SHOPP LIST ITEM NO.				47	PAGE NO.		56	Exhibit P-5a Procurement History and Planning					

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	30.860	31.167	36.105	32.410	37.105	37.626	31.844	31.997			

This program provides for new acquisitions and equipment additions to government-owned computer systems. Items to be purchased are commercially available automatic data processing equipment (ADPE) and include: Desktop computers and associated peripheral devices (keyboards, monitors, printers); file servers; local area networks; gateways; and routers, all from various manufacturers and third-party vendors for management and mission support applications. New systems and system upgrades directly support operational mission requirements. All programs in this line, through the use of specific hardware and software tools, will improve the quality, increase war fighting capability and enhance productivity in support of weapon systems. Funds will support a standard system infrastructure, allowing major commands to purchase computer equipment capabilities and quality networking.

### 11th SUPPORT WING (11SPTW)

1. **HEADQUARTERS INFORMATION TECHNOLOGY (IT) INVESTMENT:** FY96-99 funds in this program provide significant infrastructure improvements in many ADPE categories at Headquarters, United States Air Force (HQ USAF). HQ USAF personnel, including the Secretary of the Air Force and the Chief of Staff of the Air Force, will receive office automation systems and computer networks critical to supporting their mission of issuing Air Force directives and coordinating with DoD and the Joint Staff. HQ USAF personnel will receive computer systems which meet increased office automation needs. They will be afforded high quality, high speed connections to classified and unclassified networks such as the Internet and the Secure Internet Protocol Routed Network (SIPRNET). HQ USAF personnel will also receive centralized services such as business-quality electronic mail and network management through programs such as Network File Sharing System. Other investments include World Wide Web services, remote computing services, and video teleconferencing. Lack of funding in this program will prevent the Air Force Pentagon Communications Agency (AFPCA) from providing proactive solutions to ADPE requirements. A lack of procurement funding in this area will greatly increase the amount of operations and maintenance funding needed to keep HQ USAF in business using substandard equipment.

2. **HEADQUARTERS MAINFRAME SYSTEMS SUPPORT:** Funds in this program will allow the Air Force Pentagon Communications Agency to maintain a viable mainframe computer environment at HQ USAF. FY96 funds replaced aging mainframe central processing units (CPUs) in the Pentagon's Consolidated Computer Facility (CCF) data center which greatly increased data processing speed. FY97 funds provide upgrades to the operating systems and the communications gateways to other systems. FY98 funds will allow the addition of Disk Array Storage Device (DASD) units and the purchase of a magnetic tape silo for the CCF. This hardware will make mainframe data and applications more readily available to HQ USAF members. FY99 funds provide for the upgrade of the mainframe application software running on these systems. These new operating systems provide greater interoperability with other Pentagon systems and networks. When installed, these combined systems will provide faster communications, more memory, more storage space, and faster processing. They will also require less floor space and fewer operating expenses. A lack of procurement funding in this program will require a greater expenditure of operations



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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT			
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
						FY 2003
QUANTITY						
COST (In Mil)						

and maintenance funds to maintain the aging mainframe. Failure to improve existing mainframe systems at HQ USAF will jeopardize the sustainment of mission-critical Air Force data.

3. **SECRETARY OF THE AIR FORCE FINANCIAL MANAGEMENT (SAF/FM) FINANCIAL INFORMATION RESOURCES SYSTEM (FIRST):** Funds in this program will provide for the modernization of the budgeting systems throughout the entire Air Force. Systems such as the Automated Budget Interactive Data Environment System (ABIDES), the Command Budget Accounting System (CBAS), and MicroBAS will be replaced by FIRST. FY98 funds will purchase hardware to be deployed as a central system in the Pentagon. In the future, geographically-dispersed Air Force agencies and major commands will connect to the system. FIRST will modernize hardware and software to provide interaction among budget, accounting, and other functionally-related environments, including program data cost modeling, Congressional tracking, and execution analysis. A lack of procurement funding in this program will prevent the Air Force from fixing an antiquated system for planning, programming, budgeting, and executing fiscal authority. FY98 funds will allow the procurement of the hardware necessary to support this system in the Pentagon. No FY99 funds requested.

4. **EXECUTIVE AGENT (EA) FOR AIR & SPACE NATURAL ENVIRONMENT:** The EA, appointed by the Under Secretary of Defense for Acquisition and Technology, is the DoD technical advisor on all modeling & simulation issues related to air and space natural environment, e.g., weather and weather effects. The EA will incorporate accurate, timely natural environment representations (models) into Service and joint systems used for providing improved acquisition decisions, theater/campaign analyses, aircrew/battlestaff training, and real-world mission planning/rehearsal. Specifically, EA gathers and validates requirements from joint programs and coordinates DoD Science and Technology efforts necessary to satisfy them. This process reduces duplicative and stovepipe efforts within the Services and Agencies. FY99 funds will purchase the workstations and peripheral equipment needed to fulfill requirements for technology evaluation and integration.

## AIR COMBAT COMMAND (ACC)

5. **BASE OPERATIONS:** FY96-99 funds will provide additional graphics systems and workstations in support of the Part Task Trainer (PTT) program. Funding provides for the purchase of hardware for in-house construction of aircrew PTTs. In-house construction of these trainers will allow for a more timely and cost-effective response to training requirements than having private industry produce small numbers of low-cost training devices.

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

APPROPRIATION/BUDGET ACTIVITY				DATE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				FEBRUARY 1997			
P-1 ITEM NOMENCLATURE				AUTOMATIC DATA PROCESSING EQUIPMENT			
FY 1996				FY 1997			
FY 1996				FY 1998			
FY 1996				FY 1999			
FY 1996				FY 2000			
FY 1996				FY 2001			
FY 1996				FY 2002			
FY 1996				FY 2003			
QUANTITY							
COST (in Mil)							

### AIR EDUCATION AND TRAINING COMMAND (AETC)

6. **ADVANCED TRAINING SYSTEM (ATS):** ATS provides for a broad set of automation tools to allow technical and medical service training wings to do their jobs more efficiently and effectively. These funds procure desktop computers, multi-user computer systems, local area networks (LANs), printers, scanners, and associated peripheral equipment to equip six technical training groups (TTG) and the headquarters. AETC incurred a personnel reduction of 323 positions to fund the implementation of ATS. FY96 and prior year funds provided 1000 desktop computers, associated multi-user computers and peripherals, and LANs toward an Initial Operational Capability (IOC) at the 81 TTG, Keesler AFB, MS and provided computer equipment and LANs toward IOC at the 82nd, 782nd, and 882nd TTGs at Sheppard AFB, TX. FY97-99 funds will continue procurement of computer hardware and LANs for TTGs at Lackland AFB, TX and Vandenberg AFB, CA.

7. **AIR FORCE INSTITUTE OF TECHNOLOGY (AFIT) COMPUTER INFRASTRUCTURE:** Provides for purchase of communications-computer equipment to meet AFIT's computational requirements through the 1990's. This program consists of the acquisition of several computers, ranging from workstations to super mini-computers which are networked together to provide educational computer support. It will provide computing resources in support of all students, faculty, and staff applications except specialized laboratory processing and those acquisitions requiring very large computing power satisfied only by super-computer class machines (i.e. CRAY). This program will provide AFIT with state-of-the-art computer systems that are necessary to reduce AFIT's dependency on outside organizations for computer support. Purchase for FY97 will include high speed network upgrades, network security devices and CD-ROM servers, network management tools, and back-up storage and archive systems. Acquisitions for FY98 will consist of additional high speed network upgrades, central and distributed scientific workstation upgrades, and DEC Alpha cluster replacement for academic computing and administrative databases. Planned purchases for FY99 will be SUN computer servers for scientific workstations as well as additional central and distributed scientific workstations upgrades and completion of high speed network upgrades.

8. **EDUCATION AND TRAINING TECHNOLOGY APPLICATIONS PROGRAM:** This program provides innovative applications of commercial off-the-shelf, state-of-the-art technologies in the education and training arena. It allows AETC managers the opportunity to prioritize potential applications according to needs identified through the Mission Area Planning Process. The implementation of these systems increases training efficiency as well as preparing units to fully utilize new information technologies such as the Internet for the betterment of education and training. FY96 funds continued the acquisition of interactive

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APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT			
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
						FY 2003
QUANTITY						
COST (In Mil)						

courseware equipment, electronic document distribution equipment, and combat crew training simulation equipment for the Interactive Courseware Centers (ICC) in support of the AETC Training Technologies Roadmap. FY97-99 funds will continue procurement of computer training hardware to support technology applications related to distance learning and virtual reality.

9. **333rd TRAINING SQUADRON (TS) TRAINING TECHNOLOGY REFRESHMENT/EXPANSION:** This program provides the latest technology and innovations for computer hardware and computer software for the basic and advanced Communications Officer Training for Air Force and international students at Keesler AFB, MS. With the continued growth of computer technology, this program allows AETC managers to prioritize new computer developments for inclusion in state-of-the-art training. FY96 funds began acquisition of this training capability by providing the basic network system. FY99 funds will allow for increased training efficiency through the replacement of outdated equipment.

10. **AU LIBRARY SYSTEM:** No FY97/98/99 funding requested.

## AIR FORCE MATERIEL COMMAND (AFMC)

11. **COMPREHENSIVE ENGINE MANAGEMENT SYSTEM (CEMS):** CEMS is an information storage and retrieval system essential to effectively manage over 400,000 critical parts in the Air Force's large fleet of 22,000 active turbine engines. CEMS Increment IV is an invaluable tool used at base level to discover, diagnose, and prevent engine problems. The number of CEMS IV users is growing all the time as older aircraft are being re-engined or replaced by newer aircraft. Due to the age and nature of the CEMS IV software, a specially configured personal computer is required to interface with other computers in the CEMS IV system and with computers connected to other databases. These special computers support field users both at their home base and while deployed. Currently there is a backlog of over 100 bases requiring initial purchase of new equipment to run CEMS IV and a backlog of 107 bases requiring modernization of older equipment to reduce overall costs. FY96-99 funds provide for continued CEMS IV base activations, miscellaneous equipment in support of CEMS direct line reporting and interfaces to Core Automated Maintenance System (e.g., modems, communication software, serial cards for microcomputers, cables and similar equipment).

12. **EMBEDDED (COMPUTER RESOURCES) SUPPORT IMPROVEMENT PROGRAM (ESIP):** ESIP, through the use of specific hardware and software tools, will improve the quality and productivity of weapon system software and reduce an increasing backlog of weapon system software requirements. ESIP is currently divided into two primary domains or tasks: Wright Labs (WL), Wright Patterson AFB, OH, and the Software Technology Support Center (STSC), Hill

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE				FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)											

AFB, UT. Primary tasks supported through Wright Labs are: Virtual Test Station (VTS), Automated Validation (AutoVal), Automated Avionics Software Testing (AAST), A Digital Avionics Methodology Schema (ADAMS), and Low-Cost Interactive Stimuli-Generating Test Station (LISTS). Primary tasks supported through the STSC are: On-Line Services, Technology Evaluation and Demonstration, Technology Consulting, and CrossTalk Publication Systems. Funds are required to procure equipment for software tool evaluation of hard, real-time modules and components. Standard configuration off-the-shelf hardware does not fulfill the requirements dictated by these functions. This new equipment will support software engineering, development, and test of operational weapon system software and support equipment. FY96-99 funds continue procurement of a wide range of special configurations of mini/micro computers and commercial/peculiar hardware devices essential for weapon system support.

13. **F-117A COMPUTER SUPPORT:** FY96-99 funding continues procurement of computers and associated peripheral equipment in support of depot functions for the F-117 aircraft. Specifically, funds will buy ADPE, including mini/microcomputers, printers and disk drives, which provide logistics support for the program management office.

14. **LOGISTICS DATA INTEGRATION SYSTEM (LOGDIS):** LOGDIS provides users with a standard electronic mail system and with world-wide access to multiple dissimilar host computers via user friendly interfaces. This program was originally included as part of the Productivity Enhancement program. However, after FY96, the requirements for the other portions of Productivity Enhancement were canceled, leaving only the LOGDIS project. There are currently 33,000 LOGDIS users with systems at HQ Air Force Materiel Command, five Air Logistic Centers (ALCs), Aerospace Maintenance and Regeneration Center (AMARC), Cataloging and Standardization Center (CASC), and dial-in access for HQ Pacific Air Forces and HQ United States Forces in Europe. FY97/98/99 funding will provide additional hardware required to take advantage of available client/server groupware technologies.

15. **PRODUCTIVITY ENHANCEMENT:** No FY98/99 funding requested.

16. **WEAPON SYSTEM MANAGEMENT INFORMATION SYSTEM (WSMIS):** WSMIS provides an automated logistics decision support system to ensure that USAF weapon systems and combat forces can meet their wartime taskings as well as peacetime operating requirements. Hardware acquisitions will enable AFMC to provide this support more efficiently. Specifically, WSMIS provides an effective and responsive system giving improved logistics support to AFMC and other DoD activities during contingencies. FY96-99 funding procures terminals for the classified systems users and additional direct access storage devices for classified and unclassified systems.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT			
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
						FY 2003
QUANTITY						
COST (in Mil)						

17. TARGET MATERIALS PRODUCTION PROGRAM: FY96-99 funds continue procurement of automated equipment to include workstations, local area networks, software, peripherals, and laser printers to replace the current manpower intensive means of producing target materials for aircrew mission planning and execution. Without this equipment, aircrews worldwide will lack the necessary intelligence data for mission planning thus subjecting aircrews and aircraft to increased risk and decreased effectiveness. The Target Material Workstation (TMWS) is a computer system designed for target graphic production. The consolidated target material production program is a DIA (Defense Intelligence Agency) managed program that provides via the TMWS an all-digital method of producing target materials input for national and theater collection systems.

## AIR FORCE OFFICE OF SPECIAL INVESTIGATIONS (AFOSI)

18. AFOSI COMPUTER NETWORK: FY96-99 funding continues a phased program to fulfill the automation requirements of the AFOSI in sensitive mission areas such as investigative casework, counterintelligence, anti-terrorism and force projection. These automation enhancements will provide timely and accurate reports and analysis to AFOSI field commanders. Specifically, FY96-99 funding provides upgrades for the Defense Criminal Investigation Organization Information System (DCIOIS), the Defense Counterintelligence Information System (DCIIS), and the AFOSI Digital Imaging System. Additionally, funding provides modernization of AFOSI local area network and video teleconferencing systems.

## AIR FORCE OPERATIONAL TEST &amp; EVALUATION CENTER (AFOTEC)

19. OFFICE AUTOMATION: No FY98/99 funding requested.

## AIR FORCE PERSONNEL CENTER (AFPC)

20. PERSONNEL DATA SYSTEM (PDS): No FY98/99 funding requested.

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE				FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)										

21. **REGIONALIZATION OF CIVILIAN PERSONNEL SUPPORT:** Included in this program are resources required to support the Regionalization of the Air Force's civilian personnel operations. In 1993, the military Services and DoD agencies were directed to develop regional processing centers. This effort is part of the DoD-wide Civilian Personnel Regionalization/Systems Modernization program which provides for a reduction in the number of employees in the civilian personnel career field through the application of increased servicing ratios. Because the manpower reductions have been laid in, the Air Force must deliver regionalized services on time. A more detailed description of the Civilian Personnel Regionalization/Systems Modernization program is included on the Operations & Maintenance, Defense-Wide (O&M, D-W) budget submission of the Defense Civilian Personnel Management Service (DCPMS). The equipment/systems purchased allow the Air Force to accomplish regionalization and servicing ratio goals by reengineering, streamlining, and automating personnel administration and management. Initially, two proof-of-concept regional centers were established in FY95. One center is operated by Air Force Space Command (AFSPC) in Colorado Springs, CO, servicing approximately 13,000 employees at 11 locations. FY95 funds provided for the computer hardware needed to establish these centers, and FY96 provided initial start-up costs at the Air Force Personnel Center (AFPC) at Randolph AFB, TX. The proof-of-concept centers will phase down by the end of FY97 and all operations will be phased to AFPC which will begin servicing to select locations in FY97. The AFPC will provide support to all Air Force civilian employees by FY99. FY97-98 funds will purchase computer hardware, to include microcomputers, servers, printers, storage devices, networking support, associated peripheral devices, and software to establish the center and outfit installation-level Civilian Personnel Flights (CPFs). The equipment will support electronic records management systems, several Functional Process Improvements (FPIs), and electronic management of Official Personnel Folders (OPFs). In FY99, the MAISRC-approved (Major Automated Information System Review Council) USAF Regionalization Acquisition Plan provides for the purchase of servers, computers, printers, LAN (local area network) servers, and network and LAN components.

## AIR NATIONAL GUARD (ANG)

22. **JOINT RECRUITING INFORMATION SUPPORT SYSTEM (JRISS):** No FY98/99 funding requested.

## US AIR FORCE ACADEMY (USAF)

23. **AIR FORCE ACADEMY COMPUTER SUPPORT:** FY96 funds continued purchase and phased implementation of the USAFA base network (USAFAnet) to provide equipment to modernize the Cadet Administrative Management Information System (CAMIS), a base-wide Personal Protection System

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

(PPS). FY97 funds will continue the modernization of CAMIS and will enhance USAFAnet service for the cadets. FY98 funds will expand the base fiber optic ring, purchase hardware and software to support the Defense Message System (DMS), and will replace the Academy's workstation server. FY99 funds will enhance USAFAnet for the faculty and support organization and will continue implementation of DMS support and the expanded base fiber ring.

## UNITED STATES AIR FORCE IN EUROPE (USAFE)

24. **INTELLIGENCE AUTOMATIC DATA PROCESSING EQUIPMENT:** This project funds continued equipment upgrades to USAFE intelligence ADP systems and communications network. This architecture is USAFE's force-level ADP system/communications network for analysis and dissemination of intelligence to aircrews throughout the USAFE area of responsibility to support execution of combat/crisis/peacekeeping operations. FY96-99 funds continue the purchase of ADP equipment needed to fulfill this requirement.

25. **WARRIOR PREPARATION CENTER (WPC):** The WPC provides senior battle commanders and their staff the opportunity to train at the operational level of war using interactive computer simulations that replicate as closely as possible, the real-world environment. The WPC extends this training opportunity to our NATO allies. Additionally, WPC supports real-world operations such as Operation Joint Endeavor as well as exercise requirements in remote areas such as Turkey. The WPC's robust training schedule consists of 10-12 exercises/computer assisted events per year, including some world-wide exercises involving up to 9000 personnel. A large portion of WPC workstations, terminals and peripherals are nearing the end of their life cycle and are no longer economical to repair. FY96-99 funds continue procurement of simulation workstations and terminals, satellite communication equipment and peripheral equipment in order to remain technologically sufficient to meet the training needs of USAFE. Failure to obtain the equipment needed will impact on the Air Force's ability to reduce training costs, maintain war fighting capability and support world-wide operations.

## US STRATEGIC COMMAND (USSTRATCOM)

26. **OFFICE AUTOMATION (OA) LAN NETWORK INFRASTRUCTURE:** The USSSTRATCOM unclassified and secret Office Automation Local Area Network (OA-LAN) procurement provides all HQ users a standard suite of software application (word-processing-MS Word, spreadsheets-MS Excel, graphics-MMS Power Point, database-MS Access, electronic mail-E-mail) for HQ USSSTRATCOM Joint Functional Staff Offices to manipulate the tremendous amount of information that is handled every day, to include; regulations: operational plans, staff summaries, informational papers, correspondence, personnel data for

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY						
COST (In Mil)						

administrative management acquisition, programming or budgeting documents of all types in support of USSTRATCOM Intelligence, Nuclear War Planning, and Command and Control (C2). FY96, 98, and 99 funds provide for an ongoing USSTRATCOM requirement for office automation and local area networks requires upgrades/improvements in addition to periodic maintenance to provide continued support to senior staff and action officers located at Offutt AFB, NE. The office automation LAN will require upgrades and enhancements to integrate available and emerging technologies. Funding provides additional infrastructure and components and upgrades to network file servers, mail servers and printer servers, as well as stratus servers and SQL servers and upgrade Gateways for external connectivity.

**ANG/AFR:** The following is a breakout of funding for equipment used by ANG/AFR within this P-1 line.

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	-		1.5	-		0
FY97	-		0	-		0
FY98	-		0	-		0
FY99	-		0	-		0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A			D. DATE FEBRUARY 1997	
Weapon System Cost Elements			FY 1996		FY 1997		FY 1998		FY 1999		
IDENT CODE			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
11SPTW			VAR	N/A	(8,652)	VAR	N/A	(12,337)	VAR	N/A	(18,704)
1. HQS IT Investment			A		5,198			7,462			12,204
2. HQS Mainframe Systems Support			A		3,454			4,875			3,500
3. SAF/FM FIRST			A								3,000
4. Exec Agent for Air & Space Natural Environ			A								398
ACC			VAR	N/A	333	VAR	N/A	523	VAR	N/A	268
5. Base Operations			A								277
AETC			VAR	N/A	(6,642)	VAR	N/A	(4,779)	VAR	N/A	(4,141)
6. ATS			A		3,763			2,801			2,571
7. AFIT Computer Infrastructure			A		529			578			597
8. Ed and Training Technology Applications Program			A		1,821			1,400			973
											(7,186)
											4,395
											617
											1,707

Exhibit P-5 Weapon System Cost Analysis

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A									
Weapon System Cost Elements		IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999					
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
9. 333TS Trng Tech Refresh/Expansion	A			316									467	
10. AU Library System	A			213										
AFMC		VAR	N/A	(4,698)	VAR	N/A	(3,511)	VAR	N/A	(3,979)	VAR	N/A	(5,105)	
11. CEMS	A			211			154			181			196	
12. ESIP	A			1,777			1,645			2,044			2,705	
13. F-117A Computer Spt	A			366			275			240			385	
14. LOGDIS	A						401			506			528	
15. Productivity Enh	A			952			561			586			673	
16. WSMIS	A			777			475			422			618	
17. Target Materials Production Program	A			615										
AFOSI		VAR	N/A	198	VAR	N/A	190	VAR	N/A	96	VAR	N/A	94	
18. AFOSI Computer Network	A													

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME AUTOMATIC DATA PROCESSING EQUIPMENT			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A			FY 1997		FY 1999
Weapon System Cost Elements		IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

AFOTEC	19. Office Automation	A	VAR	N/A	199	VAR	N/A	202	VAR	N/A	VAR	N/A	(3,954)
AFPC	20. PDS-90	A	VAR	N/A	(6,019)	VAR	N/A	(7,324)	VAR	N/A	VAR	N/A	(3,954)
ANG	21. Regionalization of Civ Pers Spt	A	VAR	N/A	5,364	VAR	N/A	6,680	VAR	N/A	VAR	N/A	3,954
USAF	22. JRISS	A	VAR	N/A	1,490	VAR	N/A	1,318	VAR	N/A	VAR	N/A	1,626
USAF	23. AFA Computer Spt	A	VAR	N/A	1,108	VAR	N/A	(983)	VAR	N/A	VAR	N/A	(904)

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE		
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					AUTOMATIC DATA PROCESSING EQUIPMENT					FEBRUARY 1997		
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

## 11SPTW

## 1. HQS IT INVESTMENT

FY96

GSA 1

MULTIPLE

FY97

GSA 1

MULTIPLE

FY98

GSA 1

MULTIPLE

FY99

GSA 1

MULTIPLE

## 2. HQS MAINFRAME SYS SPT

FY96

DISA/GRUMMAN

DATA SYS

HERNDON, VA

FY97

DISA/GRUMMAN

DATA SYS

HERNDON, VA

FY98

UNKNOWN

FY99

UNKNOWN

## D. REMARKS

DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					AUTOMATIC DATA PROCESSING EQUIPMENT					FEBRUARY 1997			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL			

3. SAF/FM FBS INVESTMENT FY98	I-CASE ARLINGTON, VA	OPT/FP 3	11 SPTW- SSG/GUNTER	FEB 98	JUL 98	VAR 2	N/A 2	YES	NO				
	MULTIPLE	OPT/FP 4	11 SPTW	NOV 98	FEB 99	VAR 2	N/A 2	YES	NO				
	MULTIPLE	OPT/FP 5	HQ ACC	MAY 96	AUG 96	VAR 2	N/A 2	YES	NO				
	MULTIPLE	OPT/FP 5	HQ ACC	MAY 97	AUG 97	VAR 2	N/A 2	YES	NO				
4. EXEC AGENT FOR AIR & SPACE NATURAL ENVIRON FY 99	MULTIPLE	OPT/FP 5	HQ ACC	MAY 98	AUG 98	VAR 2	N/A 2	YES	NO				
	MULTIPLE	OPT/FP 5	HQ ACC	MAY 99	AUG 99	VAR 2	N/A 2	YES	NO				
5. BASE OPERATIONS FY96 FY97 FY98 FY99	MULTIPLE	C/FP	HQ AETC	MAR 96	MAY 97	VAR 2	N/A 2	YES	NO				
	MULTIPLE	C/FP	HQ AETC	MAR 97	MAY 97	VAR 2	N/A 2	YES	NO				
	MULTIPLE	C/FP	HQ AETC	MAR 98	MAY 98	VAR 2	N/A 2	YES	NO				
	MULTIPLE	C/FP	HQ AETC	MAR 99	MAY 99	VAR 2	N/A 2	YES	NO				
6. ATS FY96 FY97 FY98 FY99	MULTIPLE	C/FP	HQ AETC	MAR 96	MAY 97	VAR 2	N/A 2	YES	NO				
	MULTIPLE	C/FP	HQ AETC	MAR 97	MAY 97	VAR 2	N/A 2	YES	NO				
	MULTIPLE	C/FP	HQ AETC	MAR 98	MAY 98	VAR 2	N/A 2	YES	NO				
	MULTIPLE	C/FP	HQ AETC	MAR 99	MAY 99	VAR 2	N/A 2	YES	NO				

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.										Exhibit P-5a Procurement History and Planning			
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				AUTOMATIC DATA PROCESSING EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

7. AFIT COMPUTER INFRASTRUCTURE FY96 FY97 FY98 FY99	MULTIPLE <sup>1</sup>	C/FP	AFMC/ASC	MAY 96	JUN 96	VAR	N/A 2	YES	NO	
	MULTIPLE <sup>1</sup>	C/FP	AFMC/ASC	FEB 97	APR 97	VAR	N/A 2	YES	NO	
	MULTIPLE <sup>1</sup>	C/FP	AFMC/ASC	NOV 97	FEB 98	VAR	N/A 2	YES	NO	
	MULTIPLE <sup>1</sup>	C/FP	AFMC/ASC	NOV 98	JAN 99	VAR	N/A 2	YES	NO	
8. ED & TRNG TECH APPLICATIONS PRGM FY96 FY97 FY98 FY99	MULTIPLE <sup>1</sup>	C/FP	HQ AETC	JAN 96	MAR 96	VAR 2	N/A 2			
	MULTIPLE <sup>1</sup>	C/FP	HQ AETC	JAN 97	MAR 97	VAR 2	N/A 2			
	MULTIPLE <sup>1</sup>	C/FP	HQ AETC	JAN 98	MAR 98	VAR 2	N/A 2	YES	NO	
	MULTIPLE <sup>1</sup>	C/FP	HQ AETC	JAN 99	MAR 99	VAR 2	N/A 2	YES	NO	
9. 333TS TRNG TECH REFRESH/EXPANSION FY96 FY99	MULTIPLE <sup>1</sup>	C/FP	HQ AETC	MAY 96	JUL 96	VAR 2	N/A 2			
	MULTIPLE <sup>1</sup>	C/FP	HQ AETC	FEB 99	MAY 99	VAR 2	N/A 2	YES	NO	
10. AU LIBRARY SYSTEM FY96	MULTIPLE <sup>1</sup>	C/FP	42ABW/LGC	SEP 96	JAN 97	VAR 2	N/A 2			

D. REMARKS				Exhibit P-5a Procurement History and Planning			
DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.				P-1 SHOPP LIST ITEM NO.	PAGE NO.		
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

AFMC	11. CEMS	FY96	SAIC	C/FP	AFMC/SAALC	AUG 96	SEP 96	VAR 2	N/A 2	YES	NO				
		FY97	SAIC	OPT/FP	AFMC/SAALC	FEB 97	APR 97	VAR 2	N/A 2	YES	NO				
		FY98	SAIC	OPT/FP	AFMC/SAALC	FEB 98	APR 98	VAR 2	N/A 2	YES	NO				
		FY99	SAIC	OPT/FP	AFMC/SAALC	FEB 99	APR 99	VAR 2	N/A 2	YES	NO				
	12. ESIP	FY96	FILENET CORP	C/FP	AFMC/SMALC	JUN 96	JUL 96	VAR 2	N/A 2	YES	NO				
		FY97	SALT LAKE CITY, UT	DO/CPFF	AFMC/ASC	APR 97	JUN 97	VAR 2	N/A 2	YES	NO				
			DAYTON, OH	DO/CPFF	AFMC/ASC	JUN 97	SEP 97	VAR	N/A	YES	NO				
			TRW												
	13. F-117A COMPUTER SUPPORT	FY98	DAYTON, OH	C/FP	AFMC/SMALC	APR 98	JUN 98	VAR 2	N/A 2	YES	NO				
		FY99	UNKNOWN	C/FP	AFMC/SMALC	APR 99	JUN 99	VAR 2	N/A 2	YES	NO				
			UNKNOWN												
			SAIC	OPT/FP <sup>6</sup>	AFMC/SMALC	JUN 96	DEC 96	VAR 2	N/A 2						
		FY96	SACRAMENTO, CA												
		FY97	FIELDWORKS, INC	C/FP	AFMC/SMALC	JAN 97	APR 97	VAR 2	N/A 2						
			EDEN PRAIRIE, MN												

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C. P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT					A. DATE FEBRUARY 1997	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

14. LOGDIS	FY98	UNKNOWN	C/FP	AFMC/SMALC	JUL 98	JAN 99	VAR 2	YES	NO		
	FY99	UNKNOWN	C/FP	AFMC/SMALC	JUL 99	JAN 00	VAR 2	YES	NO		
	FY97	BATTELLE	OPT/IDIQ 5	AFMC/MSG	FEB 97	APR 97	VAR 2	YES	NO		
	FY98	BATTELLE	OPT/IDIQ 5	AFMC/MSG	FEB 98	APR 98	VAR 2	YES	NO		
	FY99	BATTELLE COLUMBUS, OH	OPT/IDIQ 5	AFMC/MSG	FEB 99	APR 99	VAR 2	YES	NO		
15. PRODUCTIVITY ENHANCEMENT	FY96	BATTELLE COLUMBUS, OH	OPT/IDIQ 5	AFMC/MSG	APR 96	JUL 96	VAR 2	N/A 2			
	FY96	NAVAIR NORFOLK, VA	MIPR/OPT/ IDIQ	AFMC/ASC	NOV 96	DEC 96	VAR 2	N/A 2			
16. WSMIS	FY96	DYNAMICS RESEARCH CORP WILMINGTON, MA	C/FP8	OO/ALC	JUL 96	OCT 96	VAR 2	N/A 2			
	FY97	DYNAMICS RESEARCH CORP WILMINGTON, MA	C/FP8	OO/ALC	JUN 97	AUG 97	VAR 2	N/A 2	YES	NO	
	FY98	UNKNOWN	C/FP	AFMC/ASC	JUN 98	AUG 98	VAR 2	N/A 2	YES	NO	
	FY99	UNKNOWN	C/FP	AFMC/ASC	JUN 99	JUL 99	VAR 2	N/A 2	YES	NO	

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.				P-1 SHOPP LIST ITEM NO. 49		PAGE NO. 54	Exhibit P-5a Procurement History and Planning			
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				AUTOMATIC DATA PROCESSING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
17. TARGET MATERIALS PROD PROG											
FY96	GTE WESTLAKE VILLAGE, CA	C/FP	AFMC/OOALC	MAY 96	AUG 96	VAR 2	N/A 2				
FY97	UNKNOWN	C/FP	AFMC/OOALC	APR 97	JUN 97	VAR 2	N/A 2	YES	NO		
FY98	UNKNOWN	C/FP	AFMC/OOALC	MAR 98	MAY 98	VAR 2	N/A 2	YES	NO		
FY99	UNKNOWN	C/FP	AFMC/OOALC	MAR 99	MAY 99	VAR 2	N/A 2	YES	NO		
AFOSI											
18. AFOSI COMPUTER NETWORK											
FY96	MULTIPLE 7	C/FP	HQ AFOSI	MULTI	MULTI	VAR 2	N/A 2				
FY97	MULTIPLE 7	C/FP	HQ AFOSI	MULTI	MULTI	VAR 2	N/A 2	YES	NO		
FY98	MULTIPLE 7	C/FP	HQ AFOSI	MULTI	MULTI	VAR 2	N/A 2	YES	NO		
FY99	MULTIPLE 7	C/FP	HQ AFOSI	MULTI	MULTI	VAR 2	N/A 2	YES	NO		
AFOTEC											
19. OFFICE AUTOMATION											
D. REMARKS											
DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.											
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE				A. DATE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT						AUTOMATIC DATA PROCESSING EQUIPMENT				FEBRUARY 1997			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL			

AFPC	FY96	MULTIPLE	C/FP	HQ AFOTEC	MAY 96	AUG 96	VAR 2	N/A 2		YES		NO	
	FY97	MULTIPLE	C/FP	HQ AFOTEC	JUN 97	SEP 97	VAR 2	N/A 2					
20. PDS	FY96	MULTIPLE	OPT/FP 5	HQ AFPC	NOV 95	APR 96	VAR 2	N/A 2					
	FY97	MULTIPLE	OPT/FP 5	HQ AFPC	NOV 96	APR 97	VAR 2	N/A 2					
21. REGIONALIZATION OF CIV PERS SPT	FY96	MULTIPLE	OPT/FP 5	HQ AFPC	NOV 95	JAN 96	VAR 2	N/A 2					
	FY97	MULTIPLE	OPT/FP 5	HQ AFPC	NOV 96	JAN 97	VAR 2	N/A 2		YES		NO	
	FY98	MULTIPLE	OPT/FP 5	HQ AFPC	NOV 97	JAN 98	VAR 2	N/A 2		YES		NO	
	FY99	MULTIPLE	OPT/FP 5	HQ AFPC	NOV 98	JAN 99	VAR 2	N/A 2		YES		NO	
ANG													
22. JRISS	FY96	MULTIPLE	C/FP	HQ ANG	SEP 96	NOV 96	VAR 2	N/A 2					

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C. P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

USAF 23. AFA COMPUTER SPT FY96 FY97 FY98 FY99	MULTIPLE MULTIPLE MULTIPLE MULTIPLE	C/FP C/FP C/FP C/FP	USAF USAF USAF USAF	JAN 96	MAR 96	VAR 2	N/A 2			
				DEC 96	FEB 97	VAR 2	N/A 2			
				DEC 97	FEB 98	VAR 2	N/A 2	YES	NO	
				DEC 98	FEB 99	VAR 2	N/A 2	YES	NO	
USAF 24. INTEL ADP FY96 FY97 FY98 FY99	MULTIPLE MULTIPLE MULTIPLE MULTIPLE	C/FP C/FP C/FP C/FP	HQ USAF HQ USAF HQ USAF HQ USAF	JUL 96	SEP 96	VAR 2	N/A 2			
				DEC 96	APR 97	VAR 2	N/A 2			
				DEC 97	APR 98	VAR 2	N/A 2	YES	NO	
				DEC 98	APR 99	VAR 2	N/A 2	YES	NO	
USAF 25. WARRIOR PREP CENTER FY96 FY97	GTE W-ROBINS, GA GTE W-ROBINS, GA	C/FP OPT/FP	HQ USAF HQ USAF	MAR 96	AUG 96	VAR 2	N/A 2			
				FEB 97	MAY 97	VAR 2	N/A 2	YES	NO	

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.									
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AUTOMATIC DATA PROCESSING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY98	GTE W-ROBINS, GA	OPT/FP	HQ USAF	FEB 98	MAY 98	VAR 2	N/A 2	YES	NO	
FY99	GTE W-ROBINS, GA	OPT/FP	HQ USAF	FEB 99	MAY 99	VAR 2	N/A 2	YES	NO	
<b>USSTRATCOM</b>										
26. OA LAN NETWORK INFRASTRUCTURE										
FY96	MULTIPLE	C/FP	HQ STRATCOM	JUN 96	SEP 96	VAR 2	N/A 2			
FY98	MULTIPLE	C/FP	55 CONS SQ	FEB 98	AUG 98	VAR 2	N/A 2	YES	NO	
FY99	MULTIPLE	C/FP	55 CONS SQ	FEB 99	AUG 99	VAR 2	N/A 2	YES	NO	

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.		
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C. P-1 ITEM NOMENCLATURE AUTOMATIC DATA PROCESSING EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. MULTIPLE GSA SCHEDULE CONTRACTORS, INCLUDING ELECTRONIC DATA SYSTEMS (EDS), HERNDON, VA; HSF INC, MCLEAN, VA; GTE, WEST LAKE, CA; TOSHIBA AMERICAN, IRVINE, CA; AND LOGICON TECH, SAN PEDRO, CA. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY.
2. QUANTITIES AND COSTS VARY BASED ON LOCATION AND CONFIGURATION.
3. OPTION TO PREVIOUSLY AWARDED CONTRACT WITH I-CASE CORP, ARLINGTON, VA.
4. OPTIONS TO MULTIPLE CONTRACTORS SPECIALIZING IN ADP HARDWARE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY.
5. OPTIONS TO MULTIPLE STANDARD CONTRACTS INCLUDING DT IV, ULANA, SUPER-MINI, SMSRC. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND FIRST DELIVERY.
6. OPTION TO 1995 FIRM FIXED PRICE CONTRACT AWARDED TO SCIENTIFIC APPLICATIONS INTERNATIONAL CORPORATION (SAIC).
7. HQ AFOSI MAKES USE OF MULTIPLE CONTRACTS TO MODERNIZE THEIR COMPUTER SYSTEMS INCLUDING TCC CORP, BOSTON, MA. MULTIPLE AWARD AND DELIVERY DATES ARE ASSOCIATED WITH THESE CONTRACTS.
8. OPTION TO 1995 FIRM FIXED PRICE CONTRACT AWARD DYNAMICS RESEARCH CORPORATION.

D. REMARKS DUE TO SPACE LIMITATIONS, FOOTNOTES FOR THIS PROGRAM CAN BE FOUND AT THE END OF THE P-5A.		
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE				
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		AF GLOBAL COMMAND AND CONTROL SYSTEM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	5.137	10.165	7.319	5.980	5.992	5.998	6.098	6.146

The Air Force Global Command & Control System (AFGCCS) program provides the common Air Force infrastructure necessary to pass Air Force command and control (C2) data between commands, their components, and the joint service Global Command and Control System (GCCS). These efforts support a more flexible open-systems, distributed C2 architecture necessary to support the client/server-based GCCS. AFGCCS provides computer and communications equipment for two command and control (C2) programs, the Air Force Command & Control Network (AFC2N) and the AFGCCS Modernization. AFC2N upgrades a site's classified C2 computer and communications backbone through extensive use of commercial-off-the-shelf (COTS) technology that adheres to the Air Force command, control, communications and computer (AFC4) building codes and standards, thereby preparing the site for GCCS operations. The AFGCCS Modernization procures and installs the GCCS at the required Air Force locations.

**1. AIR FORCE COMMAND & CONTROL NETWORK (AFC2N):** AFC2N upgrades the Air Force C2 infrastructure to a common open system architecture compatible with joint war planning and deployment software. The classified communications infrastructure of the Major Command (MAJCOM) C2 facilities (e.g. command posts) will be modernized by installing state-of-the-art networking components, improving interoperability, data throughput, and system security. AFC2N includes base-level network upgrades to support the GCCS and Theater Battle Management Core Systems (TBMCS) for Active Duty, Guard and Reserve units. It provides a standardized base-level interface between AF base level classified C2 networks and the joint Defense Information Systems Agency (DISA) secret network (SIPRNET), and complies with current AF networking initiatives.

FY96 funds upgraded C2 local area networks (LANs) for 37 locations: US Special Operations Command (7), US Transportation Command (9), US Space Command (5), Air Force Materiel Command (6) and Pacific Air Forces (10).

FY97 funds upgrade C2 LANs and improve data throughput at 77 locations: Air Combat Command (4), Air Education & Training Command (12), Air Force Combat Operations Staff (2), Air Force Materiel Command (10), Air Force Pentagon Communications Agency (1), AF Reserve (2), AF Special Operations Command (4), AF Space Command (3), Air Intelligence Agency (2), Air Mobility Command (5), Air National Guard (13), Air Weather Service (1) US Central Command/Southern Command (3), Pacific Air Forces (2), Strategic Command (11), and HQ USAF (2).

FY98 funds upgrade C2 LANs and improve data throughput at 66 locations: Air Combat Command (1), Air Education & Training Command (3), Air Force Combat Operations Staff (1), Air Force Materiel Command (10), Air Force Pentagon Communications Agency (1), AF Reserve (11), AF Special Operations Command (3), AF Space Command (6), Air Intelligence Agency (1), Air Mobility Command (6), Air National Guard (11), Pacific Air Forces (2), US Space Command (4), US Strategic Command (3), US Air Forces in Europe (2) and HQ USAF (1). In FY98, the installation of network security measures, such as firewalls and system monitors, will begin at selected AF bases to add additional security protection to meet GCCS specific security requirements.

FY99 funds upgrade C2 funds improve data throughput and network security at 60 locations: Air Force Reserves (40), Air National Guard (10), Pacific Air Forces (3), Air Education & Training Command (1), Air Combat Command (1), Air Force Materiel Command (2), and US Air Forces in Europe (3).

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AF GLOBAL COMMAND AND CONTROL SYSTEM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

2. **AF GLOBAL COMMAND AND CONTROL SYSTEM (AFGCCS) MODERNIZATION:** This funding procures GCCS servers, workstations, and associated peripherals. It integrates the GCCS at USAF and MAJCOM headquarters, Numbered Air Forces, wings, and remote sites as required to establish initial and full operational capability under GCCS. It also upgrades or replaces C2 communications and computer systems to modernize logistically unsupportable MAJCOM C2 systems and capitalize on AFC2N and AFGCCS improvements.

FY96 funds provided communications and computer systems at MAJCOM headquarters and subordinate units.

FY97 funds will continue communications and computer upgrades for Air Mobility Command, Air Force Materiel Command, Air Combat Command, US Air Forces in Europe, US Space Command, US Central Command, Air Education and Training Command, and Pacific Air Forces.

FY98 funds continue fielding GCCS hardware at all MAJCOM locations and required systems enhancements to hardware already fielded.

FY99 funds will expand the GCCS architecture to include new functional users on each base and provide technical refreshment of fielded hardware.

3. **ANG/AFR:**

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			0			0
FY97	VAR		1.164	VAR		0.463
FY98	VAR		0.775	VAR		0.775
FY99	VAR		0.530	VAR		2.110

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			B. WEAPON MODEL/SERIES/ POPULAR NAME AF GLOBAL COMMAND AND CONTROL SYSTEM			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A			D. DATE FEBRUARY 1997
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

1. AFC2N									
• LOCAL AREA NETWORK UPGRADES	A	VAR	N/A	(3,615) 3,615	VAR	N/A	(4,737) 2,267	VAR	N/A
• THROUGHPUT UPGRADES	A						2,470		
• SECURITY UPGRADES	A								
2. AFGCCS MODERNIZATION	A	VAR	N/A	1,522	VAR	N/A	5,428	VAR	N/A
TOTAL				5,137			10,165		
							(4,158) 820	VAR	N/A
							2,800		
							538		
							3,161	VAR	N/A
							7,319		
									(3,111)
									1,800
									1,311
									2,869
									5,980

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C. P-1 ITEM NOMENCLATURE AF GLOBAL COMMAND AND CONTROL SYSTEM							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

1. AFC2N																
• LOCAL AREA NETWORK UPGRADES																
FY96	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	OCT 95 <sup>5</sup>	DEC 95 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>									
FY97	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	DEC 96 <sup>5</sup>	JAN 97 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>									
FY98	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	OCT 97 <sup>5</sup>	DEC 97 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO							
• THROUGHPUT UPGRADES																
FY97	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	DEC 96 <sup>5</sup>	JAN 97 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>									
FY98	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	OCT 97 <sup>5</sup>	DEC 97 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO							
FY99	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	OCT 98 <sup>5</sup>	DEC 98 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO							
• SECURITY UPGRADES																
FY98	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	OCT 97 <sup>5</sup>	DEC 97 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO							
FY99	MULTIPLE 1	OPT/FP 1	AFMC/ESC-38EIW	OCT 98 <sup>5</sup>	DEC 98 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO							

### D. REMARKS

- OPTION TO ULANA II CONTRACT. PRIME CONTRACTORS ARE UNISYS AND EDS. SUBCONTRACTORS INCLUDE: ALTECH SERVICES, INC. SIERRA VISTA, AZ; AMERICAN COMMUNICATIONS CO, CHANTILLY, VA; ASTRONAUTICS CORP OF AMERICA, MILWAUKEE, WI; CENTURY TECHNOLOGIES, INC, SILVER SPRING, MD; HENKELS AND MCCOY, INC, BLUE BELL, PA; AND NETWORK SOLUTIONS, INC, HERNDON, VA. AWARD AND DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
- PROCUREMENT OF DIFFERENT KINDS OF COMPUTER HARDWARE CAUSES QUANTITY AND UNIT COSTS TO VARY.
- OPTIONS TO MULTIPLE STANDARD COMMUNICATIONS AND COMPUTER SUPPORT IDIQ CONTRACTS (E.G. GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO).
- OPTION TO A GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO.
- AWARD AND DELIVERY DATES REPRESENT THE DATES OF FIRST AWARD AND DELIVERY OF EQUIPMENT.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				AF GLOBAL COMMAND AND CONTROL SYSTEM								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

2. AFGCCS MODERNIZATION FY96	GSA 4	OPT/FP 4	AFMC/ESC	JAN 96 <sup>5</sup>	MAR 96 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>						
FY97	MULTIPLE 3	OPT/FP 3	AFMC/ESC	FEB 97 <sup>5</sup>	APR 97 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO				
FY98	MULTIPLE 3	OPT/FP 3	AFMC/ESC	JAN 98 <sup>5</sup>	APR 98 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO				
FY99	MULTIPLE 3	OPT/FP 3	AFMC/ESC	JAN 99 <sup>5</sup>	APR 99 <sup>5</sup>	VAR <sup>2</sup>	N/A <sup>2</sup>	YES	NO				

### D. REMARKS

- OPTION TO ULANA II CONTRACT. PRIME CONTRACTORS ARE UNISYS AND EDS. SUBCONTRACTORS INCLUDE: ALTECH SERVICES, INC. SIERRA VISTA, AZ; AMERICAN COMMUNICATIONS CO, CHANTILLY, VA; ASTRONAUTICS CORP OF AMERICA, MILWAUKEE, WI; CENTURY TECHNOLOGIES, INC, SILVER SPRING, MD; HENKELS AND MCCOY, INC, BLUE BELL, PA; AND NETWORK SOLUTIONS, INC, HERNDON, VA. AWARD AND DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.
- PROCUREMENT OF DIFFERENT KINDS OF COMPUTER HARDWARE CAUSES QUANTITY AND UNIT COSTS TO VARY.
- OPTIONS TO MULTIPLE STANDARD COMMUNICATIONS AND COMPUTER SUPPORT ID/IQ CONTRACTS (E.G. GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO).
- OPTION TO A GSA BASIC ORDERING AGREEMENT WITH WORLD WIDE TECHNOLOGY, ST. LOUIS, MO.
- AWARD AND DELIVERY DATES REPRESENT THE DATES OF FIRST AWARD AND DELIVERY OF EQUIPMENT.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		MOBILITY COMMAND AND CONTROL						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	.937	6.964	6.728	5.460	10.695	8.729	9.151	9.549

As the Department of Defense (DoD) Single Manager for Airlift, Air Mobility Command (AMC) supports national power projection force deployments and time sensitive logistics requirements. To perform this mission, AMC requires an effective command and control (C2) system that provides for efficient centralized management of the entire US strategic mobility fleet. Base command, control, communications and computers (C4) infrastructure will provide the fiber optical backbone for base-wide multi-media connectivity to accomplish AMC's tasks. Under the reorganization and restructuring of the mission of Combat Control Forces, Combat Control Teams (CCT's) previously under the direction of AMC have been transferred to the Air Force Special Operations Command (AFSOC). These CCT's will be provided with new and enhanced communications systems to receive and relay command and control information at the furthest element of command and control structure.

**1. GLOBAL COMMAND AND CONTROL (C2) ARCHITECTURE:** These funds continue AMC's integrated upgrade of command and control systems. Following are the specific details of FY96-99 AMC procurement.

a. **OBJECTIVE WING COMMAND POST (OWCP)**: OWCP funding provides for standardization and upgrades to all AMC wing-level command, control, computer and communications (C4) systems and enroute command and control (C2) center functions. Currently, a typical AMC base has several round-the-clock C2 center functions, each occupying a different facility on the base, e.g., aerial port terminal operations, maintenance control, mobility operations, airfield operations, etc. At each of the 24 mobility bases, the OWCP will standardize and upgrade C4 systems to facilitate the consolidation of C2 functions into one central C2 facility. FY95 funding began this effort which continues in FY97; five mobility bases will have been completed through FY97. FY98 funding will procure console upgrades at two additional bases. FY99 funding will provide flight line video upgrades at two bases.

b. **LAN:** FY96-98 funding continues procurement of network equipment at each AMC base/unit to provide command-wide intra-building networking infrastructure in support of Air Force systems such as the Defense Message System (DMS), Combat Information Transport System (CITS), Base Level Systems Modernization and other AMC systems such as Command and Control Information Processing System (C2IPS), OWCP, etc.

c. **ADVANCED COMPUTER FLIGHT PLAN (ACFP):** The ACFP is a user-friendly, menu-driven, computer-generated flight planning system. It is a C2 program used to generate wind optimized flight plans for all MAJCOMs. Funding for FY98 and FY99 is required to upgrade the hardware platform and upgrade the existing database to ensure compatibility with other AMC managed C2 programs. Funding for the platform and database upgrade will procure hardware with associated software and warranties.

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**BUDGET ITEM JUSTIFICATION**  
**(EXHIBIT P-40)**

DATE \_\_\_\_\_

FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		MOBILITY COMMAND AND CONTROL						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

## 2. AFSOC MOBILITY COMMAND & CONTROL

a. **AIRFIELD SUPPORT EQUIPMENT:** This funding provides equipment for Combat Control Teams (CCTs) (runway support equipment, weather equipment, radios, site survey equipment and personal CCT equipment) to ensure successful accomplishment of the ground-to-air interface across the conflict and air mobility mission spectrum. CCTs are responsible for the proper set up, siting, and operation of critical navigational aid equipment in a designated combat assault/drop zone. FY97/98 funds procure new portable battery operated infrared (IR) runway lighting to support night air operations. Additionally, funds will procure weather equipment to collect accurate local weather conditions at the assault/drop zone for real-time updates to enroute aircraft. New communications equipment, integrating several operational modes, will reduce the overall combat load of the CCT and will enhance their ability to accomplish military standard (MIL-STD) high frequency (HF) communications with C-130, C-141, and C-17 aircraft enroute to assault zones. Funding will also procure laser range finders and lap top computers to generate digitized site survey products. Lastly, procurement of survival transceivers will provide CCT's personal communications for CCT's in emergency rescue situations. No FY99 funding requested.

b. **TACTICAL COMMAND AND CONTROL (TAC C2) PROGRAM:** The Tactical C2 Program provides funds for the purchase of new and enhanced communications systems and essential equipment which are required for Special Tactics Teams (STT) (including pararescue) to provide C2 to the farthest reaching elements of Air Force Special Operations Command's (AFSOC) C2 structure. STTs input intelligence, weather and assault zone assessments into AFSOC's C2 network and receive/relay mission taskings. As the forward site C2 and air traffic control element, STTs provide the DoD with the flexibility to conduct airdrops, assault landings and use austere airfields. FY97/98 funds will purchase various devices to support STT missions: (1) ultrahigh frequency (UHF) Satellite Communication (SATCOM) radios which meet JCS mandated narrowband and demand assigned multiple access (DAMA) standards; (2) new high frequency (HF) portable radios with automatic link establishment (ALE) to allow communications within the AFSOC's C2 network in the automatic mode; and (3) Multiband, Multimode Beacons (MMB), which guide aircraft to drop zones, landing zones, or extraction zones to support combat operations. No FY99 funding requested.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE
										FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY COMMAND AND CONTROL					C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A				
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. GLOBAL C2 ARCHITECTURE		VAR	N/A	(937)	VAR	N/A	(4,729)	VAR	N/A	(5,053)	VAR	N/A	(5,460)
a. OWCP	A				2 1	N/A	800	2 1	N/A	801	2 1	N/A	857
b. LAN	A			937			3,929			3,604			3,310
c. ACFP	A									648			1,293
2. AFSOC MOBILITY CMD & CONTROL					VAR	N/A	(2,235)	VAR	N/A	(1,675)			
a. AIRFIELD SPT EQ	A						750			875			
b. TAC C2 PROGRAM	A						1,485			800			
TOTAL				937			6,964			6,728			5,460
1/ Number of Bases													

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				MOBILITY COMMAND AND CONTROL								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

### 1. GLOBAL COMMAND AND CONTROL ARCHITECTURE

#### a. OBJECTIVE WING COMMAND POST (OWCP)

FY97 SIEMENS ROLM  
FY98 SIEMENS ROLM  
FY99 SIEMENS ROLM  
VIENNA VA

OPT/FFP 1  
OPT/FFP 1  
OPT/FFP 1

HQ AMC  
HQ AMC  
HQ AMC

FEB 97  
FEB 98  
FEB 99

AUG 97  
MAR 98  
MAR 99

2 2  
2 2  
2 2

N/A 3  
N/A 3  
N/A 3

YES  
YES  
YES

NO  
NO  
NO

#### b. LOCAL AREA NETWORK (LAN)

FY96 MULTIPLE  
FY97 MULTIPLE  
FY98 MULTIPLE

OPTION/FP 4  
OPTION/FP 4  
OPTION/FP 4

HQ AMC  
HQ AMC  
HQ AMC

MULTI  
MULTI  
MULTI

MULTI  
MULTI  
MULTI

VAR  
VAR  
VAR

N/A 5  
N/A 5  
N/A 5

YES  
YES  
YES

NO  
NO  
NO

#### c. ACFP

FY98 UNKNOWN 7  
FY99 UNKNOWN 7

SS/FP  
SS/FP

HQ AMC  
HQ AMC

JUN 98  
JUN 99

JAN 99  
JAN 00

VAR  
VAR

N/A 5  
N/A 5

NO  
NO

YES  
YES

APR 98  
APR 99

### D. REMARKS

1. OPTION TO PRIOR YEAR AMC REQUIREMENTS CONTRACT WITH SIEMENS ROLM, VIENNA, VA.
2. NUMBER OF BASES
3. UNIT COST VARIES DUE TO DIFFERENT SITE CONFIGURATIONS.
4. UTILIZES AFCAC 308 AND DESKTOP IV CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
5. UNIT COST VARIES BECAUSE OF DIFFERENT QUANTITIES AND KINDS OF COMPUTER ITEMS THAT ARE BEING PROCURED.
6. UTILIZES ULANA AND AFCAC 308 CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES. EXAMPLE OF CONTRACTOR: WESSON INTL, AUSTIN, TX.
7. 8A SMALL BUSINESS SET ASIDE CONTRACT; SPECIFIC CONTRACTOR TO BE DETERMINED.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				MOBILITY COMMAND AND CONTROL								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

2. AFSOC MOBILITY COMMAND & CONTROL										
a. AIRFIELD SUPPORT EQ										
FY97	UNKNOWN	C/FFP	HQ AFSOC	JUN 97	DEC 97	VAR	N/A 5	YES	NO	
FY98	UNKNOWN	C/FFP	HQ AFSOC	JUN 98	DEC 98	VAR	N/A 5	YES	NO	
b. TAC C2 PROGRAM										
FY97	MULTIPLE	OPTION/FP 6	HQ AFSOC	MULTI 6	MULTI 6	VAR	N/A 5	YES	NO	
FY98	MULTIPLE	OPTION/FP 6	HQ AFSOC	MULTI 6	MULTI 6	VAR	N/A 5	YES	NO	

### D. REMARKS

- OPTION TO PRIOR YEAR AMC REQUIREMENTS CONTRACT WITH SIEMENS ROLM, VIENNA, VA.
- NUMBER OF BASES
- UNIT COST VARIES DUE TO DIFFERENT SITE CONFIGURATIONS.
- UTILIZES AFCAC 308 AND DESKTOP IV CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
- UNIT COST VARIES BECAUSE OF DIFFERENT QUANTITIES AND KINDS OF COMPUTER ITEMS THAT ARE BEING PROCURED.
- UTILIZES ULANA AND AFCAC 308 CONTRACTS. MULTIPLE VENDORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES. EXAMPLE OF CONTRACTOR: WESSON INTL, AUSTIN, TX.
- 8A SMALL BUSINESS SET ASIDE CONTRACT; SPECIFIC CONTRACTOR TO BE DETERMINED.

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AIR FORCE PHYSICAL SECURITY SYSTEM					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	15.076	14.304	15.112	18.058	18.842	19.246	19.411	19.462

This program procures and installs physical security equipment to protect aircraft, missiles, nuclear weapons, and other critical war fighting resources under the control of Air Force major commands. The program objectives are to replace older generation intrusion detection systems at fixed-sites, provide relocatable sensors for use on Air Force flightlines, respond to transient security threats, and to provide tactical sensors and communications equipment for air base defense forces.

1. **AIR BASE DEFENSE SENSORS:** FY96-99 funds the Air Force tactical sensor program which will support Air Base Defense requirements to enable security forces to detect intrusions and assess targets. The total Air Force requirement is for 826 Tactical Automated Security Systems (TASS) kits to support two major regional conflicts and provide robust force protection capabilities world-wide. TASS kits can be tailored into Squad, Flight, and Headquarters kits, each containing varying numbers of active, passive, telescope infrared, and breakwire sensors; communications modules and associated support equipment. In November 1996, an FY97 sole source contract was awarded by Electronic Systems Center (ESC) at Hanscom AFB to provide \$47M of TASS equipment, based upon an urgent and compelling need to immediately fulfill force protection requirements in Southwest Asia. The contract includes \$7M from this P-1 line and \$40M from the FY97 "Force Protection/Anti-Terrorism" supplemental P-1 line #55.

FY96 funds procured 207 hand-held thermal imagers.

FY97 funds an estimated 18 Squad kits, 39 Flight kits, and 6 Headquarters kits.

FY98/99 funds will procure the additional 618 TASS kits via a competitively awarded contract.

2. **AIR LAUNCH CRUISE MISSILE (ALCM) SECURITY SYSTEMS:** These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical ALCM security command and control subsystems that are no longer supportable. FY96/97/98/99 funding provides for equipment integration and upgrades for Intermediate Maintenance Facilities (IMF's) at Fairchild AFB, WA, Barksdale AFB, LA, and Minot AFB, ND.

3. **ANTITERRORISM:** Antiterrorism funds continue to procure intrusion detection and assessment equipment to protect overseas resources that may be soft targets for terrorist attacks. Equipment includes portable tactical sensors, thermal imagers, fiber optic sensors, and other state-of-the-art detection and assessment equipment. Funds are used synergistically with other Air Force programs to achieve adequate levels of protection. FY96/97/98/99 funds purchase portable security equipment to be used in the Pacific, European, and Southwest Asian theaters to respond to changing and evolving threat scenarios.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE		DATE	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		AIR FORCE PHYSICAL SECURITY SYSTEM		DATE	
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY					
COST (in Mil)					

#### 4. BASE PHYSICAL SECURITY SYSTEMS:

The Air Force has a continuing need to upgrade and modernize existing physical security systems presently installed at fixed sites worldwide. These systems must be replaced every eight years, on the average, depending on environmental conditions, type of sensor, and availability of spare parts.

a. FLIGHTLINE SECURITY: Flightline security equipment reduces significant risk on the Air Force flightlines. Air Force downsizing and aircraft technology advances result in a condition where each single airframe now represents much more national power projection capability than previous aircraft. However, the security afforded most Air Force aircraft in terms of equipment or manpower has actually declined. In FY96 the Air Force began procurement of flightline security assessment equipment as part of a new Tactical Automated Security Systems (TASS) contract. TASS includes a variety of sensors to meet a broad range of intrusion detection needs (perimeter, tactical, flightline). Flightline sensors include the use of microwave technology with tunable frequencies for world-wide deployment. FY96 funds procured an initial quantity of 23 TASS thermal imagers programmed for distribution to Pacific Air Force (PACAF), US Air Forces Europe (USAFE) and HQ Air Combat Command (ACC). FY97/98 funds provide upgrades to nine PACAF flightline security systems. FY99 begins a limited enhancement of high value flightline security across all Major Commands (MAJCOMs) through the acquisition and application of 31 TASS kits.

b. FIXED-SITE SECURITY: Fixed-Site Security projects support long term physical security requirements at permanent Air Force installations worldwide. Permanently-based aircraft and missiles, nuclear weapons in depot storage, satellite control facilities, and other key Air Force assets require permanently installed intrusion detection systems (both interior and exterior) and access control systems. These systems must be replaced every eight years on average, depending on environmental conditions, types of sensor and availability of spare parts. Projects are prioritized by MAJCOMs and HQ USAF. The Systems Program Office conducts site surveys, determines appropriate hardware and software solutions, manages the installation, and conducts security systems test and turnover to users. FY96 funds a Weapon Storage Area (WSA) upgrade at Dyess AFB, TX and completes the WSA upgrade for Whiteman AFB, MO. Pending successful completion of a second quarter FY97 QT&E, the Advanced Entry Control System (AECS) will be installed and operationally tested at Malmstrom AFB, MT. Additionally, funds will procure four video storage systems to correct an assessment deficiency identified at four WSA locations within CONUS. FY97 will fund a WSA upgrade at F.E. Warren AFB, WY in the fourth quarter FY97, and integration of new aircraft parking area docks into the security system at Whiteman AFB. FY98 will fund the upgrade of the security system at the Kirtland Underground Munitions Storage Complex (KUMSC) at Kirtland AFB, NM while FY99 funds will upgrade the intrusion detection system at Minot AFB, ND.

5. MINUTEMAN SQUADRON SECURITY: These funds procure intrusion detection sensors, alarm annunciators, closed circuit television cameras and program office support to maintain and replace critical Minuteman warhead storage security command and control subsystems that are no longer supportable. FY96-99 funds will purchase equipment upgrades at Malmstrom AFB, MT, F.E. Warren AFB, WY, and Grand Forks AFB, ND.

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UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

## 6. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			2.700			1.080
FY97			2.657			1.045
FY98			2.780			1.000
FY99			2.296			0.903

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# UNCLASSIFIED

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME AIR FORCE PHYSICAL SECURITY SYSTEM				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A				FEBRUARY 1997
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1996				FY 1997				
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AIR BASE DEFENSE SENSORS	A	VAR	N/A	5,147	VAR	N/A	6,819	VAR	N/A	7,660
2. ALCM SECURITY SYS	A	VAR	N/A	1,234	VAR	N/A	1,263	VAR	N/A	1,253
3. ANTITERRORISM	A	VAR	N/A	908	VAR	N/A	874	VAR	N/A	902
4. BASE PHYS SEC SYS a. FLIGHTLINE SEC b. FIXED-SITE SECURITY	A A	VAR A	N/A N/A	(7,670) 575 7,095	VAR VAR	N/A N/A	(4,831) 789 4,042	VAR VAR	N/A N/A	(4,763) 753 4,010
5. MINUTEMAN SQD SEC	A	VAR	N/A	117	VAR	N/A	517	VAR	N/A	534
TOTAL				15,076			14,304			15,112
										6,890
										1,252
										925
										(8,443) 4,772 3,671
										548
										18,058

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE				AIR FORCE PHYSICAL SECURITY SYSTEM			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	IF YES, WHEN AVAIL

1. AIR BASE DEFENSE SENSORS									
FY96	MAGNAVOX <sup>7</sup> MAHWAH, NJ	C/FFP <sup>7</sup>	AFMC/ESC	FEB 96	AUG 96	VAR 2	N/A 3		
FY97	TRW <sup>7</sup> CARSON, CA	SS/FFP <sup>7</sup>	AFMC/ESC	NOV 96	FEB 97	VAR 2	N/A 3		
FY98	UNKNOWN	C/FFP <sup>7</sup>	AFMC/ESC	DEC 97	SEP 98	VAR 2	N/A 3	YES	NO
FY99	UNKNOWN	OPTION	AFMC/ESC	DEC 98	SEP 99	VAR 2	N/A 3	YES	NO
2. ALCM SECURITY SYSTEMS									
FY96	MULTIPLE <sup>4</sup>	DEL ORD <sup>1</sup>	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3		
FY97	MULTIPLE <sup>4</sup>	DEL ORD <sup>1</sup>	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3	YES	NO
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	JUN 98	VAR 5	N/A 3	YES	NO
FY99	UNKNOWN	DEL ORD	AFMC/ESC			VAR 5	N/A 3	YES	NO
3. ANTITERRORISM									
FY96	MULTIPLE <sup>6</sup>	DEL ORD <sup>1</sup>	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3		
FY97	MULTIPLE <sup>6</sup>	DEL ORD <sup>1</sup>	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3	YES	NO
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	JUN 98	VAR 5	N/A 3	YES	NO
FY99	UNKNOWN	DEL ORD <sup>1</sup>	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3	YES	NO
4. BASE PHYSICAL SECURITY SYSTEMS									
A. FLIGHTLINE SECURITY									
FY96	MAGNAVOX MAHWAH N.J.	C/FFP	AFMC/ESC	FEB 96	AUG 96	VAR 5	N/A 3		

D. REMARKS		P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5a Procurement History and Planning	
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.		52		74		

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C. P-1 ITEM NOMENCLATURE AIR FORCE PHYSICAL SECURITY SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY97	TRW CARSON, CA	SS/FFP	AFMC/ESC	NOV 96	FEB 97	VAR 5	N/A 3	YES	NO		
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	SEP 98	VAR 5	N/A 3	YES	NO		
FY99	UNKNOWN	OPTION	AFMC/ESC	DEC 98	SEP 99	VAR 5	N/A 3	YES	NO		
B. FIXED SITE SECURITY FY96	SYS PLAN CORP ARLINGTON, VA	OPT/FP 9	AFMC/ESC	MULTI 9	MULTI 9	VAR 5	N/A 3				
FY97	SYS PLAN CORP ARLINGTON, VA	OPT/FP 9	AFMC/ESC	MULTI 9	MULTI 9	VAR 5	N/A 3	YES	NO		
FY98	SYS PLAN CORP ARLINGTON, VA	OPT/FP 9	AFMC/ESC	MULTI 9	MULTI 9	VAR 5	N/A 3	YES	NO		
FY99	UNKNOWN	C/FP	AFMC/ESC	JAN 99	MULTI 9	VAR 5	N/A 3	YES	NO		
5. MINUTEMAN SQUADRON SECURITY FY96	MULTIPLE 8	DEL ORD 1	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3				
FY97	MULTIPLE 8	DEL ORD 1	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3	YES	NO		
FY98	UNKNOWN 8	C/FFP	AFMC/ESC	DEC 97	JUN 98	VAR 5	N/A 3	YES	NO		
FY99	UNKNOWN 8	DEL ORD 1	AFMC/ESC	MULTI 1	MULTI 1	VAR 5	N/A 3	YES	NO		

D. REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.									
			P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning				
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AIR FORCE PHYSICAL SECURITY SYSTEM							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

### FOOTNOTES:

- Option to delivery order (Del Ord) contracts which allow indefinite delivery/indefinite quantity orders to be placed by site. Multiple award and delivery dates. Contract expires and a new contract will be competitively awarded in FY98.
- Type and quantities of equipment being procured vary per location, e.g., squad, flight and headquarters kits.
- Unit costs vary per equipment configuration at each location.
- Example of contractor: MILCOM Systems Corp., Virginia Beach, VA.
- Various types and quantities of physical security equipment are site dependent. Systems are composed of multiple sensors and sensor assessment equipment.
- Example of contractor: Systems Planning Corp, Arlington, VA.
- In FY96, the Air Force competed a new contract for the assessment segment (handheld thermal imagers) portion of the Tactical Automated Security Systems (TASS). In FY97, due to an "urgent and compelling requirement", the AF issued a sole source contract to TRW for TASS equipment for SWA. In FY98, the Air Force will compete the remainder of the TASS kit sensor system program with outyear follow-on delivery order options.
- Examples of contractors: Perimeter Products, Mountain View, CA; Burrell Corp, Lancaster, PA; Kohu Inc., San Diego, CA; SMF Systems Corp, San Francisco, CA; International Creative Data Industries, Inc., Bethel, CT; MILCOM Systems Corp., Virginia Beach, VA.
- Option to a five-year FY93 delivery order contract with Systems Planning Corp, Arlington, VA., prime contractor for fixed site security installations. Last year for orders is FY98; new contract will be competitively awarded in FY99.

D. REMARKS  
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.

Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						COMBAT TRAINING RANGES	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT									
QUANTITY		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)		2.065	11.364	13.272	14.558	18.330	33.925	31.675	31.028

The Combat Training Ranges Program procures equipment for Air Force ranges to support training/evaluation of aircrews and operational testing of weapon systems and tactics under simulated combat conditions including air-to-air combat, air-to-ground combat, and electronic warfare. Upgrading range instrumentation systems is the primary purpose of this program. The original range instrumentation systems were known as Air Combat Maneuvering Instrumentation (ACMI) systems and provided real-time monitoring and control of aircraft during large forces exercise training as well as post-mission debriefing and analysis. The second generation systems, capable of handling 36 aircraft simultaneously, are referred to as Measurement and Debriefing Systems (MDS). The next generation upgrade, increasing the capacity to 100 aircraft, will begin procurement in the outyears under the Navy-lead Joint Tactical Combat Training System (JTCTS). The first ranges to be upgraded under this effort will be at Hill AFB, UT and the Yukon, with the remaining ranges systematically upgraded over the next decade. In the interim, aging computer systems will be replaced at selected ranges with open architecture systems capable of hosting the latest fielded software upgrades. In addition, security equipment will be added to all Air Force ACMI ranges, encrypting the data link required for training with Advanced Medium Range Air-to-Air Missile (AMRAAM).

#### 1. AIR COMBAT TRAINING SYSTEMS

- TYNDALL RANGE EXPANSION:** The training range at Tyndall AFB, FL trains all F-15 air-to-air combat pilots in the USAF. Expansion of the over-water instrumented range area is required to facilitate training with AMRAAM. The upgrade to the Tyndall training range is critical to viability of initial qualification training of F-15 pilots. The upgrade expands current range coverage six fold through use of existing Global Positioning System (GPS) technology at a cost lower than the traditional multi-lateration system. FY96 funds procured ground system hardware and installation necessary for system interface with the GPS and will complete the expansion program. No FY98/99 funding is requested.
- NATIONAL TRAINING CENTER/AIR WARRIOR (NTC/AW) UPGRADE:** The basic NTC/AW program, completed in FY94, was a Congressional mandated joint program between the Army and Air Force. The Army has upgraded the Range Data Management System (RDMS) capabilities at Fort Irwin, CA, from 700 to 2200 ground participants with potential growth to 4400. An Air Force upgrade of the Air Warrior Measurement and Debriefing System (AWMDS) is critical to compatibility between the two systems. AWMDS is an important training device which provides near real-time feedback to Army and Air Force combatants on the effectiveness of close air support and air defense tactics. FY97 funds will be used to upgrade the Air Force part of the NTC/AW system to include ground system hardware and installation costs. No FY98/99 funding is requested.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		COMBAT TRAINING RANGES							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

c. **ADVANCED DISPLAY AND DEBRIEFING SYSTEM (ADDS):** The ADDS program is a joint Air Force/Navy program to provide a cost effective, highly versatile debriefing system that significantly improves aircrew access to MDS debriefing products. The system also provides a remote debriefing capability which dramatically increases utilization rates for Air Force instrumentation ranges. FY98 funds will procure special access ADDS for selected Air Force squadrons. FY97 and FY98 funds will procure special access ADDS for selected Air Force Squadrons. No FY99 funding is requested.

d. **ALPENA AIR NATIONAL GUARD (ANG) TRAINING RANGE:** This program will support the Alpena Combat Readiness Training Center (CRTC) at Alpena, Michigan. Reference FY96 Appropriations Conference Report 104-344, November 15, 1995, Page 92. FY97 funding will instrument the existing range with a Global Positioning System (GPS) tracking system. The system will allow live monitoring, contain a data link, and provide simulated weapon outcomes. Items to be procured will be non-developmental, commercial-off-the-shelf equipment. FY97 funds will purchase ground equipment including computers, a display and debriefing station, antennas and communication links. No FY98/99 funding is requested.

e. **AIR COMBAT TRAINING SYSTEMS (ACTS) UPGRADES:** This effort, a "modular" approach to ACMI range upgrades, provides an interim AMRAAM weapons simulation capability for range training. Aging computational and control systems (CCS) and display and debriefing systems (DDS) with high sustainment costs, will be replaced with smaller, more capable, efficient open architecture computer systems capable of hosting the latest fielded software upgrade. In addition, security equipment and GPS capability will be added to each range to support an immediate need for AMRAAM training. The security equipment will encrypt the data link needed for AMRAAM training. The GPS capability will provide expanded range coverage also needed to accommodate AMRAAM training. The GPS capability will also reduce the number of ground stations needed, reducing sustainment costs.

The FY98 funding will procure selected equipment and installation at the following ranges:

Utah Test and Training Range (UTTR) - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.

Gulfport ANGB MS - - Will replace CCS and DDS, and install software block upgrades to provide GPS tracking, data link encryption and simulated AMRAAM firing.

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT TRAINING RANGES					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)									

2. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			-			-
FY97			4.0			-
FY98			7.0			-
FY99			2.0			8.6

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME COMBAT TRAINING RANGES		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A		FY 1996		FY 1997		FY 1998		FY 1999		
Weapon System Cost Elements		IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. AIR COMBAT TRNG SYS			VAR	N/A	(2,065)	VAR	N/A	(11,364)	VAR	N/A	(13,272)	VAR	N/A	(14,558)
a. TYNDALL RANGE EXP	A				2,065			6,864			672			
b. NTC/AW	A							500						
c. ADDS	A							4,000						
d. ALPENA TRNG RANGE	A													
e. ACTS UPGRADES	A													
Utah Test & Training Range														
Gulfport ANGB, MS														
Volk Fld ANGB, WI														
Langley AFB, VA														
Savannah ANGB, GA														3,606
Elmendorf AFB, AK														3,000
Eielson AFB, AK														1,677
Tyndall AFB, FL														2,275
Luke AFB, AZ														3,000
Homestead AFB, FL														1,000
Jacksonville ANGB, FL														
TOTAL					2,065			11,364			13,272			14,558

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## COMBAT TRAINING RANGES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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## 1. AIR COMBAT TRAINING SYSTEMS

A. TYNDALL RANGE EXPANSION  
FY96B. NTC/AW  
FY97C. ADDS  
FY97  
FY98D. ALPENA TRNG RANGE  
FY97

## E. ACTS UPGRADES

UTAH TEST & TRAINING RANGE  
FY98GULFPORT ANGB, MS  
FY98

	CUBIC DEFENSE SAN DIEGO, CA	OPT/FPIF 1	AFMC/ASC	MAR 96	MAR 97	VAR	N/A 2			
	UNKNOWN	C/FFP	AFMC/ASC	MAR 97	NOV 98	VAR	N/A 2	YES	NO	
	UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	VAR	N/A 2	YES	NO	
	UNKNOWN	OPT/FFP	AFMC/ASC	FEB 98	JUL 98	VAR	N/A 2	YES	NO	
	UNKNOWN	C/FFP	AFMC/ASC	AUG 97	AUG 98	VAR	N/A 2	NO	YES	MAY 97
	UNKNOWN	C/FFP 3	AFMC/ASC	JAN 98	OCT 99	VAR	N/A 2	NO	YES	JUN 97
	UNKNOWN	C/FFP 3	AFMC/ASC	JAN 98	JAN 99	VAR	N/A 2	NO	YES	JUN 97

## D. REMARKS

1. OPTION TO FY94 CONTRACT AWARDED TO CUBIC DEFENSE SYSTEMS, SAN DIEGO, CA.

2. MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED.

3. A REQUEST FOR PROPOSAL (RFP) WILL BE ISSUED BY AFMC/ASC ASKING FOR A SINGLE BID ON ALL FY98 FUNDED SITES. THE FY98 NEGOTIATED CONTRACT MAY, AT THE DISCRETION OF THE CONTRACTING OFFICER, HAVE SUBSEQUENT YEAR OPTIONS.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## COMBAT TRAINING RANGES

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
VOLK FIELD ANGB, WI FY98	UNKNOWN	C/FFP 3	AFMC/ASC	JAN 98	JAN 99	VAR	N/A 2	NO	YES	JUN 97
LANGLEY AFB, VA FY98	UNKNOWN	C/FFP 3	AFMC/ASC	JAN 98	JAN 99	VAR	N/A 2	NO	YES	JUN 97
SAVANNAH ANGB, GA FY98	UNKNOWN	C/FFP 3	AFMC/ASC	JAN 98	JAN 99	VAR	N/A 2	NO	YES	JUN 97
ELMENDORF AFB, AK FY99	UNKNOWN	C/FFP 3	AFMC/ASC	NOV 98	MAR 00	VAR	N/A 2	NO	YES	JUN 97
EIELSON AFB, AK FY99	UNKNOWN	C/FFP 3	AFMC/ASC	NOV 98	MAY 00	VAR	N/A 2	NO	YES	JUN 97
TYNDALL AFB, FL FY99	UNKNOWN	C/FFP 3	AFMC/ASC	NOV 98	JUL 00	VAR	N/A 2	NO	YES	JUN 97
LUKE AFB, AZ FY99	UNKNOWN	C/FFP 3	AFMC/ASC	NOV 98	SEP 00	VAR	N/A 2	NO	YES	JUN 97
HOMESTEAD AFRB, FL FY99	UNKNOWN	C/FFP 3	AFMC/ASC	NOV 98	NOV 00	VAR	N/A 2	NO	YES	JUN 97
JACKSONVILLE ANGB FL FY99	UNKNOWN	C/FFP 3	AFMC/ASC	NOV 98	DEC 00	VAR	N/A 2	NO	YES	JUN 97

## D. REMARKS

1. OPTION TO FY94 CONTRACT AWARDED TO CUBIC DEFENSE SYSTEMS, SAN DIEGO, CA.
2. MULTIPLE UNIT COSTS DUE TO VARIOUS TYPES OF EQUIPMENT BEING INSTALLED.
3. A REQUEST FOR PROPOSAL (RFP) WILL BE ISSUED BY AFMC/ASC ASKING FOR A SINGLE BID ON ALL FY98 FUNDED SITES. THE FY98 NEGOTIATED CONTRACT MAY, AT THE DISCRETION OF THE CONTRACTING OFFICER, HAVE SUBSEQUENT YEAR OPTIONS.

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Exhibit P-5a Procurement History and Planning

UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY											
COST (in Mil)	-	-	-	-	3.488	10.088	1.129	56.534	2.979	2.974	

MEECN systems provide assured communications connectivity between the National Command Authorities (NCA) and the strategic deterrence forces. The Defense IEMATS (Improved Emergency Message Automated Transmission System) Replacement and Command & Control Terminals (DIRECT) is a Strategic Nuclear Command and Control (C2) system directly supporting the Chairman of the Joint Chiefs of Staff (CJCS) and the NCA. It will procure system hardware for the seven nuclear command centers and a Software Maintenance Facility which will allow transition from the Automated Digital Network (AUTODIN) as the primary communications channel to the Defense Message System (DMS). DIRECT will provide all current IEMATS requirements, including the build and release of Emergency Action Messages (EAMs), to allow the warfighter to remain responsive to NCA directives. DIRECT will be compatible with the Defense Message System (DMS) when it supplants the Automated Digital Network (AUTODIN). Procurement begins in FY98 with two systems procured and installed in FY98 to support IOT&E. The remaining six systems are procured and installed in FY99. Interim contractor support procurement is planned following IOT&E to certify the DIRECT system for Top Secret-SIOP messaging using DMS while organic capability is being phased in. Procurement funding complete in FY00.

RDT&E funding for MEECN DIRECT is reported in R-1, Appropriation 3600F Research Development Test & Evaluation, Air Force, Line #166, Program Element # 0303131F, Minimum Essential Emergency Communications.

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# UNCLASSIFIED



# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME MINIMUM ESSENTIAL EMERGENCY COMM NET		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT											
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

1 DIRECT:											
System Hardware	B										
ECP/ECOs											6,339
Type 1 Training											832
Installation & Checkout											480
Pre-Operational Spares											808
Program Office Support											1,072
ICS											557
TOTAL											10,088

P-1 SHOPP LIST ITEM NO. 54		PAGE NO. 85	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			MINIMUM ESSENTIAL EMERGENCY COMM NET							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
DIRECT										
FY98	GTE Government Systems Corp, Needham, MA	SS/CPAF	AFMC/ESC	Oct 97	Oct 98	VAR	N/A	Yes	No	-
FY99	GTE Government Systems Corp, Needham, MA	OPT/CPAF	AFMC/ESC	Oct 98	Oct 99	VAR	N/A	Yes	No	-

D. REMARKS		P-1 SHOPP LIST ITEM NO. 54	PAGE NO. 86	Exhibit P-5a Procurement History and Planning
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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			FORCE PROTECTION/ANTITERRORISM								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	13,600	101,377	54,439	4,379	8,450	10,139	6,951		6,344		

This program procures and installs communications, computers, vehicles, and associated physical security equipment for use in the force protection mission area. Equipment includes: Up-armored High Mobility Multipurpose Wheeled Vehicles (HMMWV), Tactical Automated Security Systems, Thermal Imagers, Under Vehicle Surveillance Systems, Closed Circuit Television Systems, and specialized surveillance, digital switching, and networking equipment. This specific funding is the result of focused planning, programming and budgeting to address shortfalls identified by the Air Force in the wake of the Khohbars Towers terrorist bombing attack and the resulting "Force Protection Assessment of USCENTCOM AOR and Khohbar Towers" report of the Downing Assessment Task Force. The FY96 funds were appropriated as an emergency supplemental to execute Operation DESERT FOCUS in Saudi Arabia. The FY97 funds were appropriated in accordance with the President's Proposal on Counterterrorism. The program objectives are to protect military personnel, civilian employees, family members, facilities, and equipment in all locations and situations through the planned and integrated implementation of antiterrorism, physical security, and personnel protection measures.

1. **DESERT FOCUS:** FY96 funds will procure and install the communications and computer equipment for Prince Sultan Air Base and Eskan Village in Saudi Arabia that is required to support the Central Air Forces (CENTAF) units that have relocated to the bases from less secure areas. FY96 funding will also procure and install Vehicle Mounted Thermal Imagers (VMTI) in HMMWVs. VMTIs provide mobile security patrols the ability to assess and detect hostile threats during periods of darkness and reduced visibility. Primary deployment of these assets will be to Southwest Asia.
2. **UP-ARMORED HIGH MOBILITY MULTIPURPOSE WHEELED VEHICLES:** FY98 funds procure 253 HMMWVs for base defense, explosive ordnance disposal, and nuclear security force protection missions. These specialized HMMWVs will provide forces with the ability to respond to incidents while being protected against projectiles of up to 7.56MM.
3. **TACTICAL AUTOMATED SECURITY SYSTEM (TASS):** FY97/98/99 funds will procure TASS equipment for deployment to Southwest Asia and other immediate force protection needs. As a relocatable tactical detection and assessment capability, the TASS system can be rapidly deployed worldwide as required.
4. **HAND HELD THERMAL IMAGERS:** FY97 funds will purchase thermal imaging devices for use in the force protection environment. Thermal imagers allow security forces to detect and assess hostile threats during periods of reduced visibility. As a relocatable asset, thermal imagers can be rapidly deployed worldwide as required.
5. **UNDER VEHICLE SURVEILLANCE SYSTEMS (UVSS):** FY97 funds will purchase relocatable UVSSs for use by security forces in the force protection mission area. UVSSs will allow security forces to better detect unauthorized devices, e.g. bombs, that may be hidden underneath a vehicle. As a relocatable asset UVSSs can be rapidly deployed worldwide as required.

**UNCLASSIFIED**

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FORCE PROTECTION/ANTI-TERRORISM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

- 6. CLOSED CIRCUIT TELEVISION SYSTEMS (CCTV):** FY97 funds will purchase CCTV systems for use on flightlines and entry control points at Air Force bases around the world. Systems will allow security forces to survey large areas electronically from a remote location. Primary deployment location will be sites in Southwest Asia. Other OCONUS and CONUS locations will vary based on requirements; numbers of systems and their costs will vary on a site-by-site basis.
- 7. SPECIALIZED SURVEILLANCE/INVESTIGATIVE EQUIPMENT:** FY97/98 funds will procure deployable surveillance and investigative equipment for use by the Office of Special Investigations' (AFOSI) Antiterrorism Specialty Teams. Equipment includes technical surveillance systems, compact thermal imagers, night viewing devices, and 8mm camera surveillance systems. These systems will enhance AFOSI agents' ability to conduct surveillance and countersurveillance activities, and to collect, assess, process and report terrorism threat information.
- 8. SPECIAL PROJECTS:** FY97 funds procure Force Protection/Anti-Terrorism ground equipment for classified projects. Details are provided under a separate cover.

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME FORCE PROTECTION/ANTITERRORISM		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

1. DESERT FOCUS a. BASE COMMUNICATIONS b. VMTI	A	VAR	(13,600) 13,100 500	N/A5 10							
2. UP-ARMORED HMMWVs	A	50		10							
3 TACTICAL AUTOMATED SECURITY SYSTEMS	A				VAR1	40,000	253	194	49,096	VAR1	4,379
4. HAND-HELD THERMAL IMAGERS	A					1,000	VAR1	N/A1	3,843	N/A1	
5. UNDER VEHICLE SURVEILLANCE SYSTEMS	A				100	800					
6. CLOSED CIRCUIT TELEVISION SYSTEMS	A				20	7,900					
7. SPECIAL SURVEILLANCE/ INVESTIGATIVE EQUIPMENT	A				VAR2	953	VAR3	N/A3	1,500		
8. SPECIAL PROJECTS4	A				VAR3	50,724					
TOTAL			13,600			101,377			54,439		4,379

REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5.	P-1 SHOPP LIST ITEM NO. 55	PAGE NO. 89	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME FORCE PROTECTION/ANTITERRORISM		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999		TOTAL COST
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	

## FOOTNOTES:

1. TASS: The TASS system includes four different types of kit configurations; headquarters, flight, squad, and flightline. Hardware components include sensors, communications modules, assessment devices, and alarm annunciators.
2. CCTV systems include cameras, viewing devices and associated hardware. Because each system is custom designed to a specific location there is no standard CCTV package. Unit cost is dependent on the type of CCTV package.
3. Multiple types of equipment procured with variable unit costs.
4. Classified projects; details provided under a separate cover.
5. Unit costs vary per equipment configuration at each location.

REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5.	P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT							C. P-1 ITEM NOMENCLATURE FORCE PROTECTION/ANTI-TERRORISM				A. DATE FEBRUARY 1997	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

1. DESERT FOCUS A. BASE COMMUNICATIONS FY96	MULTIPLE <sup>1</sup>	DEL ORD <sup>4</sup>	AFMC/ESC	VAR	VAR	VAR <sup>3</sup>	N/A <sup>2</sup>					
B. VEHICLE MOUNTED THERMAL IMAGERS FY96	UNKNOWN	C/FFP	ESC/AVJ	AUG 97	OCT 97	50	10,000	YES	NO			
2. UP-ARMORED HMMWVs FY98	ARMY/TACOM (AM GENERAL) SOUTH BEND, IN	MIPR/OPT	AFMC/ WR-ALC	JAN 98	JAN 99	253	193,450	YES	NO			
3. TACTICAL AUTOMATED SECURITY SYSTEM FY97	TRW CARSON, CA	SS/FFP	AFMC/ESC	NOV 96	FEB 97	VAR <sup>3</sup>	N/A <sup>2</sup>					
FY98	UNKNOWN	C/FFP	AFMC/ESC	DEC 97	SEP 98	VAR <sup>3</sup>	N/A <sup>2</sup>	YES	NO			
FY99	UNKNOWN	OPT/FFP	AFMC/ESC	DEC 98	SEP 99	VAR <sup>3</sup>	N/A <sup>2</sup>	YES	NO			
4. HAND-HELD THERMAL IMAGERS FY97	TRW CARSON, CA	SS/FFP	AFMC/ESC	NOV 96	FEB 97	100	10,000					
5. UNDER VEHICLE SURVEILLANCE SYSTEM FY97	UNKNOWN	C/FFP	ACC/SP	APR 97	SEP 97	20	40,000	YES	NO			

D. REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.				P-1 SHOPP LIST ITEM NO. 55		PAGE NO. 91	Exhibit P-5a Procurement History and Planning					
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE FORCE PROTECTION/ANTI-TERRORISM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
6. CLOSED CIRCUIT TELEVISION SYSTEMS FY97	UNKNOWN	C/FFP	ACC/SP	APR 97	OCT 97	VAR <sup>3</sup>	N/A <sup>2</sup>			
7. SPECIALIZED SURVEILLANCE/ INVESTIGATIVE EQUIPMENT  FY97 FY98	MULTIPLE <sup>9</sup> MULTIPLE <sup>9</sup>	C/FFP C/FFP	AFMC/ASC AFMC/ASC	MULTI <sup>9</sup> MULTI <sup>9</sup>	MULTI <sup>9</sup> MULTI <sup>9</sup>	VAR <sup>3</sup> VAR <sup>3</sup>	N/A <sup>2</sup> N/A <sup>2</sup>	YES YES	NO NO	
8. SPECIAL PROJECTS <sup>5</sup>										

## FOOTNOTES:

1. Example of contractors: Northern Communications Systems, McLean, Va.
2. Unit costs vary per equipment configuration at each location.
3. Quantities of equipment are site dependent.
4. Option to delivery order contracts which allow indefinite delivery/indefinite quantity orders to be placed by site. Multiple award and delivery dates.
5. Classified projects; details provided under a separate cover.
6. Multiple contractors with multiple award dates and delivery dates.

D. REMARKS DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED AT THE END OF THIS P-5A.		
P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE					FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					C3 COUNTERMEASURES	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	10.393	9.128	14.904	10.847	10.538	12.040	10.461	17.785

Air Force Information Warfare (IW) is in its infancy...operationally and doctrinally. The increasing technical sophistication of the AF leads to a dependency on technology which, in turn, may represent potentially crippling vulnerabilities. The Air Force is on the leading edge of this new Cyber Dimension of Air Warfare. IW capitalizes on the growing sophistication, connectivity, and reliance on information technology. IW is any action to deny, exploit, corrupt or destroy the enemy's information and its functions; protecting ourselves against those actions; and exploiting our own military information functions. Command and Control Warfare (C2W) is a warfighting application of IW in military operations. Methods used to conduct information warfare include electronic warfare (EW), psychological operations, military deception, physical attack, information attack, and various security measures. The Air Intelligence Agency (AIA), Air Force Information Warfare Center (AFIWC), and Joint Command and Control Warfare Center (JC2WC) are responsible for IW and C2W operations supporting joint, air component, and/or national objectives. Procurement funds in this program provide the equipment (computer, computer related, communications, and unique intelligence and analysis systems) that is vital to accomplish and support IW and C2W missions. Elements of the program are addressed individually below.

1. **AIR FORCE INFORMATION WARFARE CENTER (AFIWC) SUPPORT:** AFIWC is the AF center of excellence under the direction of AIA. AFIWC provides technical assistance to the AF for IW and EW analysis and strategy for combat preparation, planning, and operations and weapon systems development and assessment. A brief description by project follows:
  - a. **ADP UPGRADES:** Replaces basic AFIWC internal computer infrastructure and network requirements for administrative and management functions.
  - b. **MODELING AND SIMULATION:** Conducts AFIWC IW analysis. Permits AFIWC to provide detailed analysis and graphic displays vital to protection of US aircraft and assessment of U.S. EW systems.
  - c. **COMMUNICATIONS SECURITY ASSESSMENT SUPPORT:** Monitors friendly unsecured telecommunications to provide USAF commanders an Operations Security (OPSEC) vulnerability assessment of their units. No FY98 funds requested.
  - d. **RED FORCE:** Provides realistic communications and radar jamming to aircrews around the world to prepare aircrews, weapons controllers and C2 personnel to operate in a communications and radar jamming environment. No FY98/99 funds requested.
  - e. **TELECOMMUNICATIONS SYSTEMS ANALYSIS POSITIONS (TSAP):** Monitors digital voice, data, facsimile, and video in an integrated package.
  - f. **C2W OPERATIONS SUPPORT (formerly called CONSTANT WEB):** Maintains the integrated C2W knowledge base which is an approved migration data base for C2W operations and was a proven capability in Desert Storm/Desert Shield.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		C3 COUNTERMEASURES						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

g. **INFORMATION WARFARE:** Supports the integration of C2W decision aids into combat planning and execution cycles.

h. **OFFENSIVE IW:** FY97 and FY98 initiatives support the AF goal of information superiority. Integrates offensive capability in AF combat and mission rehearsal operations. Supports IW analysis vital to deliver timely AF IW capability for training and combat operations.

**In support of the above systems:**

FY96 dollars procured desktop computers, servers, Ultraspac workstations, high performance (HP) workstations, first-generation HP workstations, second generation HP workstations, deployable HP workstations, database servers and classified systems.

FY97 dollars will procure desktop computers, network equipment, uninterruptible power supplies, Ultraspac workstations, HP workstations, first generation HP workstations, deployable systems, servers, data base servers and productivity and analysis tools

FY98 dollars will procure network servers, PC's, peripherals and connectivity for three classified networks, HP workstations, first generation HP workstations, second generation systems, deployable workstations, servers, data base servers, and productivity and analysis tools.

FY99 dollars will procure advanced workstations, HP workstations, first generation HP workstations, second generation systems, deployable workstations, data base servers, productivity and analysis tools, multiple processor work stations, peripherals, servers and, single processor workstations.

**2. JOINT COMMAND AND CONTROL WARFARE CENTER (JC2WC):** The JC2WC provides joint force commanders (combatant commanders, subordinate unified commanders, and joint task force commanders), service component commanders and functional component commanders direct command and control warfare (C2W) support. The JC2WC supports the integration of the constituent elements of C2W -- operations security, psychological operations, military deception, EW and destruction as well as the non-combat military applications of IW -- throughout the planning and execution phases of operations. The JC2WC provides predictive analysis and post event mission analytic support to U.S. forces involved in contingency operations. The JC2WC analyzes and correlates all-source data on both friendly and threat forces involved in contingency operations. This data is used as input into sophisticated C2W computer models and simulations. These high-fidelity models incorporate complex radar detection analysis calculations and anomalous propagation (such as atmospheric ducting over land) to provide field commanders composite analytic pictures. The JC2WC provides tactics and technical evaluations to include integrated soft/hard kill options and technical feasibility and trade-offs. This analysis results in a complete assessment of C2W options and effectiveness predictions. FY96-99 funding provides continuing upgrades to multi-processor systems to improve performance and achieve interoperability with virtual simulations. Additional processors and

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					C3 COUNTERMEASURES	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

storage capacity must be added to the JC2WC analysis networks and systems to improve performance of C2W computer models. Workstations are replaced approximately every three years. Funding also provides for field commander automated support capability, automated support for EW/C2W training simulations, and equipment required to provide operational test support for the Services, Joint Staff and DoD test agencies.

3. **INFORMATION WARFARE SQUADRON (IWS):** The Chief of Staff of the Air Force has stated that mastering IW is pivotal to our national security in the 21st century. As such, the 609th Information Warfare Squadron (IWS) at Shaw AFB, SC represents the vanguard of AF operational IW. This first-of-a-kind front line combat unit is the AF's initial move to merge current doctrinal concepts into operational capabilities. The IWS will be involved in all facets of IW from planning to execution. They will deploy to support the Joint Force Air Component Commander (JFACC) within the Air Operations Center (AOC). FY96 and FY98 purchases are classified as well as the vendors. Information provided on a need-to-know basis.

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## UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME C3 COUNTERMEASURES			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996			FY 1997			FY 1998			FY 1999	
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. AFIWC SUPPORT	VAR	N/A	(5,465)	VAR	N/A	(7,551)	VAR	N/A	(9961)	VAR	N/A	7336
a. ADP UPGRADES	A		194			210			212			221
b. MODELING AND SIMULATION	A		474			519			552			603
c. COMSEC	A		334			425						458
ASSESSMENT SPT												
d. RED FORCE	A		334			425						
e. TSAP	A		1,365			1,193			1,172			1,119
f. C2W OPS SUPPORT	A		494			320			331			338
g. INFORMATION WARFARE	A		2,270			4,459			2,315			384
h. OFFENSIVE IW	A								5379			4213

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME C3 COUNTERMEASURES			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996			FY 1997			FY 1998			FY 1999	
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

2. JC2WC		VAR	N/A	(2,031)	VAR	N/A	(1,577)	VAR	N/A	VAR	N/A	1754	VAR	N/A	3511
a. EC ANALYST NETWORK	A			406			517					694			683
b. COMBAT ANALYSIS SYSTEM	A			180			230					100			2000
c. FIELD COMMANDERS SUPPORT	A			665			180					200			200
d. COMPUTERIZED TRAINING SIMULATION	A			180			175					260			400
e. C2W TEST SUPPORT	A			600			475					500			228
3. INFORMATION WARFARE SQUADRON (Classified program)	A	VAR	N/A	2,897				VAR	N/A			3,189			
TOTAL				10,393			9,128					14,904			10,847



# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					C3 COUNTERMEASURES				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT														
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL				

### 1. AFIWC SUPPORT

#### A. ADP UPGRADES

FY96  
FY97  
FY98  
FY99

MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>

C/FP  
C/FP  
C/FP  
C/FP

HQ AIA  
HQ AIA  
HQ AIA  
HQ AIA

MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>

MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>

VAR  
VAR  
VAR  
VAR

N/A 2  
N/A 2  
N/A 2  
N/A 2

YES  
YES  
YES  
YES

NO  
NO  
NO  
NO

#### B. MODELING AND SIMULATION

FY96  
FY97  
FY98  
FY99

MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>

C/FP  
C/FP  
C/FP  
C/FP

HQ AIA  
HQ AIA  
HQ AIA  
HQ AIA

MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>

MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>

VAR  
VAR  
VAR  
VAR

N/A 2  
N/A 2  
N/A 2  
N/A 2

YES  
YES  
YES  
YES

NO  
NO  
NO  
NO

#### C. COMSEC ASSESSMENT SPT

FY96  
FY97  
FY99

MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>  
MULTIPLE<sup>6</sup>

C/FP  
C/FP  
C/FP

HQ AIA  
HQ AIA  
HQ AIA

MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>

MULTI<sup>1</sup>  
MULTI<sup>1</sup>  
MULTI<sup>1</sup>

VAR  
VAR  
VAR

N/A 2  
N/A 2  
N/A 2

YES  
YES  
YES

NO  
NO  
NO

#### D. RED FORCE

FY96  
FY97

LORAL/RAYTHEON<sup>3</sup>  
LORAL/RAYTHEON<sup>3</sup>

OPTION<sup>3</sup>  
OPTION<sup>3</sup>

HQ AIA  
HQ AIA

MULTI<sup>1</sup>  
MULTI<sup>1</sup>

MULTI<sup>1</sup>  
MULTI<sup>1</sup>

VAR  
VAR

N/A 2  
N/A 2

YES  
YES

NO  
NO

### D. REMARKS

- MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
- UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
- LORAL, LAS VEGAS, NV. RAYTHEON, GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
- UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
- UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

- AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.
- JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C3 COUNTERMEASURES							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

E. TSAP	FY96	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2									
	FY97	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY98	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY99	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
F. C2W OPERATIONS SUPPORT	FY96	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2									
	FY97	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY98	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY99	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
G. INFORMATION WARFARE	FY96	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2									
	FY97	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY98	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY99	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
H. OFFENSIVE IW	FY96	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2									
	FY97	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY98	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							
	FY99	MULTIPLE <sup>6</sup>	OPT/FP 4	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO							

### D. REMARKS

- MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
- UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
- LORAL, LAS VEGAS, NV. RAYTHEON, GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
- UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
- UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

- AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.
- JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C3 COUNTERMEASURES							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### 2. JC2WC SUPPORT

#### A. EC ANALYST NETWORK

FY96  
FY97  
FY98  
FY99

DIA/MULTIPLE 5  
DIA/MULTIPLE 5  
DIA/MULTIPLE 5  
DIA/MULTIPLE 5

HQ AIA  
HQ AIA  
HQ AIA  
HQ AIA

MULTI 1  
MULTI 1  
MULTI 1  
MULTI 1

VAR  
VAR  
VAR  
VAR

N/A 2  
N/A 2  
N/A 2  
N/A 2

YES  
YES  
YES  
YES

NO  
NO  
NO  
NO

#### B. COMBAT ANALYSIS SYSTEM

FY96  
FY97  
FY98  
FY99

MULTIPLE 7  
MULTIPLE 7  
MULTIPLE 7  
MULTIPLE 7

C/FP  
C/FP  
C/FP  
C/FP

HQ AIA  
HQ AIA  
HQ AIA  
HQ AIA

MULTI 1  
MULTI 1  
MULTI 1  
MULTI 1

VAR  
VAR  
VAR  
VAR

N/A 2  
N/A 2  
N/A 2  
N/A 2

YES  
YES  
YES  
YES

NO  
NO  
NO  
NO

#### C. FIELD COMMANDERS SUPPORT

FY96  
FY97  
FY98  
FY99

MULTIPLE 7  
MULTIPLE 7  
MULTIPLE 7  
MULTIPLE 7

C/FP  
C/FP  
C/FP  
C/FP

HQ AIA  
HQ AIA  
HQ AIA  
HQ AIA

MULTI 1  
MULTI 1  
MULTI 1  
MULTI 1

VAR  
VAR  
VAR  
VAR

N/A 2  
N/A 2  
N/A 2  
N/A 2

YES  
YES  
YES  
YES

NO  
NO  
NO  
NO

### D. REMARKS

- MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT.
- UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS.
- LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS.
- UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS.
- UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.

TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT:

- AFIWC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA.
- JC2WC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)					A. DATE FEBRUARY 1997					
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C3 COUNTERMEASURES							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

D. COMPUTERIZED TRAINING SIMULATION	FY96	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2		
	FY97	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO
	FY98	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO
	FY99	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO
E. C2W TEST SUPPORT	FY96	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2		
	FY97	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO
	FY98	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO
	FY99	MULTIPLE <sup>7</sup>	C/FP	HQ AIA	MULTI 1	MULTI 1	VAR	N/A 2	YES	NO
3. INFORMATION WARFARE SQUADRON	FY96			HQ ACC						
	FY98			HQ ACC						
(CLASSIFIED INFORMATION)										

D. REMARKS		P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5a Procurement History and Planning
1. MULTIPLE AWARD AND DELIVERY DATES FOR VARIOUS TYPES OF EQUIPMENT. 2. UNIT COST VARIES BECAUSE OF VARYING NUMBERS OF EQUIPMENT END ITEMS. 3. LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA. OPTIONS TO PRIOR YEAR CONTRACTS. 4. UTILIZES AIR FORCE AND DEFENSE INTELLIGENCE AGENCY EXISTING CONTRACTS WITH MULTIPLE VENDORS. 5. UTILIZES DEFENSE INTELLIGENCE AGENCY'S (DIA) 21V ADP CONTRACT WITH MULTIPLE VENDORS.  TYPICAL CONTRACTORS INVOLVED WITH C3 COUNTERMEASURES PROCUREMENT: 6. AFWCC: SILICON GRAPHICS, MOUNTAIN VIEW, CA; LORAL, LAS VEGAS, NV; RAYTHEON, GALETA, CA. 7. JC2WCC: SOUTHWEST RESEARCH INC. (SWRI), SAN ANTONIO, TX; SCIENCE APPLICATIONS INTERNATIONAL CORP. (SAIC), SAN DIEGO, CA; ELECTRONIC WARFARE ASSOCIATES (EWA), HERNDON, VA.		56		101	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE JOINT SURVEILLANCE SYSTEM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)	-	-	-	11.444	4.864	1.987	5.035		5.273	

The Joint Surveillance System is a major component of the Integrated Tactical Warning and Attack Assessment (ITW/AA) system. The ITW/AA is used by North American Air Defense (NORAD), a bilateral United States and Canadian military command, to provide warning of an atmospheric (aircraft) or exoatmospheric (missile) attack on North America. Within the ITW/AA system, the primary mission of the JSS is the maintenance of air sovereignty over the North American continent. Funding for the following JSS project begins in FY99:

#### R/SAOC MODERNIZATION

The Region/Sector Air Operations Center (R/SAOC) computer system processes, integrates, displays and stores data from existing surveillance, command and control and intelligence systems that comprise the atmospheric portion of the ITW/AA system. It receives, forwards, and exchanges that data over designated ITW/AA communications networks. The R/SAOC computer forwards processed ITW/AA data to support strategic and tactical decision-makers with accurate air defense data to provide support for regional aircraft control/intercept missions, including counterdrug operations. The modernized R/SAOC computer system will be a state-of-the-art open architecture of modular design that employs a commercial-off-the-shelf (COTS/GOTS) hardware and software system. It will accommodate all present operational requirements with expansion capabilities to incorporate any new national missile defense, cruise missile defense, and space based sensors. In addition, the new system will require fewer personnel to operate and maintain, thus ensuring maximum reduction of associated operations and maintenance costs. The modernized system will replace the existing AN/FYQ-93 system, a 1970s proprietary design that has reached its saturation point, cannot support the expanding mission, and is becoming increasingly difficult to maintain.

FY99 funds will procure new prime mission equipment (PME) and provide for site activation and communications upgrades for the Western Air Defense Sector (WADS) and the Alaskan R/SAOC; provide interim contractor support (ICS); and provide for other program support costs such as installation and testing of new equipment, system engineering, program management and data preparation.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)																
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME JOINT SURVEILLANCE SYSTEM				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing information On P-5a								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				FY 1996			FY 1997			FY 1998			FY 1999			
Weapon System Cost Elements				IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
R/SAOC MODERNIZATION				A										VAR	N/A	11,444
a. PME																(7,000)
WADS																4,100
ALASKAN R/SAOC																2,900
b. SITE ACTIVATION/ COMM EQUIPMENT MODERNIZATION				A												(900)
WADS																520
ALASKAN R/SAOC																380
c. ICS				A												(500)
WADS																275
ALASKAN R/SAOC																225
d. PROGRAM SUPPORT SYS ENG/PRG MGT DATA/OTHER				A												(3,044)
																2,535
																509
TOTAL																11,444

	P-1 SHOPP LIST ITEM NO. 57	PAGE NO. 103	Exhibit P-5 Weapon System Cost Analysis
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P. 1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		JOINT SURVEILLANCE SYSTEM								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## R/SAOC MODERNIZATION

A. PRIME MISSION EQUIPMENT  
FY99B. COMM EQUIP MODERNIZATION  
FY99

UNKNOWN	C/CPAF	AFMC/ESC	DEC 98	APR 99	VAR	N/A <sup>1</sup>	NO	YES	JUL 97
UNKNOWN	C/CPAF	AFMC/ESC	DEC 98	APR 99	VAR	N/A <sup>1</sup>	NO	YES	JUL 97

## REMARKS:

1. VARIOUS TYPES OF EQUIPMENT BEING INSTALLED AT BOTH THE WADS AND ALASKAN R/SAOC RESULT IN VARYING UNIT COSTS.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE				FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			BASE LEVEL DATA AUTOMATION PROGRAM					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	26.665	22.385	46.778	36.665	37.719	49.032	22.427	22.439

Base Level Data Automation consists of several standard Air Force-wide base level computer programs. These programs include automation support of 12 major base level functions such as maintenance, munitions, finance, civil engineering, transportation and supply. All of these programs support the day-to-day activities of base operations. They provide productivity gains, save manpower, and increase the overall efficiencies of base level functions. Some programs such as Wing Automatic Data Processing support the consolidation of ADPE, providing the migration to open systems architecture and software standardization at Regional Processing Centers (RPCs) based on the Ada programming language. These programs are key to the Air Force's Global Engagement doctrine. They provide the warfighter with a "one update-one time" data processing environment.

1. **WING AUTOMATIC DATA PROCESSING SUPPORT (WAS):** This program provides for Life Cycle Management (LCM) of Standard Base Level Support (SBLs) through computer systems for Air Force installations worldwide. During both peace and wartime contingencies, bases are provided hardware/software tools and services to maintain base level support at base-level and regionalized sites in support of flight line maintenance, supply, accounting and finance, budget and personnel service systems at active duty Air Force Bases, Air National Guard, Air Force Reserve installations, and Defense Megacenters. This program sustains the support provided to our bases and does not develop new systems or application code. FY96-99 funding continues to provide hardware upgrades and communications interfaces. Failure to fund these upgrades could make the entire standard base-level computer support system inoperative, degrading or disabling the functions of our warfighting missions.

2. **WORK INFORMATION MANAGEMENT SYSTEM (WIMS)/SERVICE INFORMATION MANAGEMENT SYSTEM (SIMS)/BASE CONTRACTING AUTOMATION SYSTEM (BCAS):** This program will procure/install additional capability for the Regional Processing Centers (RPC) to accommodate the regionalization of WIMS/SIMS/BCAS. This regionalization is critical to meeting DoD initiatives that require an open systems architecture with consolidated computer support at RPCs. This effort will provide services at the RPCs for the data automation systems used by Civil Engineers; Morale, Welfare and Recreation Services; and Base Contracting communities. These systems currently reside on Wang proprietary mini-computers. FY96 funds procured servers to begin the process of regionalizing WIMS/SIMS/BCAS. FY97 and 98 funds will buy additional servers and communications equipment for outside CONUS Regional Processing Centers (RPCs) and CONUS Defense Megacenters (DMCs). Exact numbers of servers depends on proper sizing based on increasing technological capabilities at time of purchase. No FY99 funding is requested.

3. **AIR EDUCATION AND TRAINING COMMAND (AETC) WANG REPLACEMENT:** This program provides information flow from data systems that are critical to the mission of the civil engineers for managing the design, construction, repair, and maintenance of facilities at the 13 major installations within AETC, valued at more than \$11 billion dollars. Included in this effort is the transition from Wang proprietary mini-computers to open systems architecture, and also the installation of local area networks (LANs) at each civil engineering site. These sites will then be connected to a wide area network (WAN) to achieve the necessary communications between each site, major command, HQ USAF, and other functions. This program procures computer hardware and network

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		BASE LEVEL DATA AUTOMATION PROGRAM	
FY 1996	FY 1997	FY 1998	FY 1999
FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY			
COST (In Mil)			

FY96 funds procured network communications interfaces, a limited amount of LAN/WAN software needed to satisfy the LAN/WAN requirement and mission objects. No FY98/99 funding is requested.

4. **CARGO MOVEMENT OPERATIONS SYSTEM (CMOS):** This program supports the FY87 Joint Chiefs of Staff (JCS) direction and the FY89-93 Defense Guidance that tasked the Services to develop a capability to provide timely and accurate passenger/cargo movement information during force deployments. Further system development and implementation are consistent with the FY95-99 Defense Guidance that called for support systems to provide "rapid strategic mobility, and sufficient support and sustainment capabilities." CMOS provides an integrated transportation system capability for routine deployment and sustainment operations by employing the same DoD and Service shipment policies and procedures in peace and war. Capable of supporting routine and surge requirements, CMOS automates base shipping and deployment processes, produces movement documentation, and furnishes timely information to Major Commands (MAJCOMs), transportation component commands, and the joint deployment community. CMOS is a major contributor to system in-transit visibility and control over cargo and passenger movement, and is fielded worldwide at 77 active duty Air Force, 92 Air National Guard (ANG) and 13 Air Force Reserve (AFRES) locations. FY98-99 funds will procure Radio Frequency (RF) Access Technology hardware to enable current hand-held terminals to scan bar-coded shipping labels and transmit the data electronically via RF to the CMOS server for processing.
5. **GLOBAL COMBAT SUPPORT SYSTEM - AIR FORCE (GCSS-AF) (Formerly called Base Level Systems Modernization (BLSM)):** The GCSS-AF program was created to re-engineer and redesign standard base-level computer systems that support base-level functions as well as enhance war fighting capabilities. The program modernizes approximately 36 computer application systems consisting of 13 plus million lines of code encompassing 12 different functional areas. The modernized systems provides the following: (1) greater functionality for the users; (2) interoperability and easier interfaces with other systems through enhanced data sharing and standardization; (3) systems that can be modified easier and faster to meet changing mission requirements; and (4) systems that can be ported to various hardware/software platforms in an open systems environment. GCSS postures the standard computer systems for movement to the open systems environment. This program increases the operational readiness of all base-level Automated Data Systems (ADS) supporting critical war-fighting weapon systems, reduces logistics support costs, improves productivity, and provides critical decision-making information at the point of attack for operational commanders. FY97 funding for GCSS will be used to provide full implementation hardware for the three technical lead ADSs, the Air Force Operations Resource Management System, Manpower Data System, and Logistics Module (LOGMOD-B) at the RPCs and base level, and also purchase the tools necessary to modernize the remaining systems in the Standard Base Level Computer environment. No FY98/99 funding is requested.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE		FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		BASE LEVEL DATA AUTOMATION PROGRAM						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

6. **FUELS AUTOMATED MANAGEMENT SYSTEM (FAMS):** FAMS is a fuels data collection/information management system that uses state-of-the-art microcircuit technology to automate the management and control of vital petroleum support operations. FAMS: (1) addresses critical needs in managing USAF fuels; (2) reduces the current two percent error rate in a \$4 billion annual fuels budget; (3) reduces the risk of loss of life and property; (4) reduces USAF fuels management manpower; and (5) provides accurate information for war planning, which increases the USAF's ability to respond to threats. It eliminates much of the paperwork and manual input in today's fuels management, providing total asset visibility while improving cash flow, credit management, and just-in-time inventory. One hundred thirteen (113) manpower positions were given up based on projected FAMS savings. FAMS also provides the more important benefits associated with safety and the environment. Independent cost-benefit analysis shows FAMS will provide total savings of \$161 million when fully implemented. The system consists of three hardware components that collect fuel transactions and inventory data at base level for service stations (Automated Fuels Service Stations (AFSS)), storage tanks (Automatic Tank Gauging (ATG) devices), and aircraft refueling systems (Automated Data Collection/Fuel Dispensing Systems (ADC/FDS)). In addition FAMS sustains an information management system to support all users. At the Air Force level, FAMS enhances the aviation fuel tracking/billing system. FY96 and prior year funding initiated FAMS installation. FY97 funds will continue procurement/installation of approximately 2022 ATG devices in U.S. Air Forces Europe (USAFE), the CONUS, and Pacific Air Forces (PACAF), and ADC systems to support approximately 10,000 aircraft and metering devices for fuel dispensing systems/equipment. FY98 will fund system test and the installation of 50 ATG devices and 975 ADC/FDS systems in PACAF; and installation of 150 ATG devices and equipment at 34 AFSS at Air National Guard sites. FY99 continues installation of ATG devices and ADC systems in the Pacific.

7. **INFORMATION PROCESSING MANAGEMENT SYSTEMS (IPMS):** FY96 funding continued the effort begun in prior years to procure hardware necessary to upgrade IPMS in a planned fashion to enable handling of increasingly sophisticated ADPE inventory management requirements. It provides the capability to handle an increasingly larger ADPE inventory database, manage the DoD mandated fee-for-service inventory tracking, and provide configuration management capability for ADPE managers, providing a more real-time response for on-line users. Upgrades included central processors, storage devices, and front-end processors which replaced older, more expensive mainframe with a more cost-effective, maintainable hardware platform. IPMS is installed at the Standard Systems Group and provides remote access to users throughout the Air Force. No FY98/99 funding is requested.

8. **STANDARD PROCUREMENT SYSTEM (SPS):** SPS will replace all DoD non-classified procurement information systems and databases and provide over 51,000 DoD procurement professionals (approximately 7500 Air Force) with an automated information system (AIS) based on standard DoD procurement processes and DoD standard data. Reference Air Force Descriptive Summary, Program Element 38610, Budget Activity 7, Information Management Automation for the RDT&E portion of the SPS program. The Air Force, along with other DoD procurement agencies supporting SPS, has the acquisition responsibility to provide hardware and communications connectivity to support the SPS. Funding for FY98 and FY99 will purchase computer hardware and

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE				
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		BASE LEVEL DATA AUTOMATION PROGRAM							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

associated software, local area networks, servers, Fortezza cards, and communications infrastructure at the Major Commands and base level contracting offices.

9. **INTEGRATED MAINTENANCE DATA SYSTEM (IMDS) SYSTEM:** This program provides the equipment to support the deployment of IMDS. The IMDS program is an evolutionary acquisition program to develop and field a standard Air Force maintenance information system. The final IMDS systems will replace all existing legacy systems supporting Air Force maintenance activities with a single integrated open architecture, modern decision support system. This enhanced decision support system will increase operational production capability and support system efficiency while decreasing our mobility footprint and cost of operations. FY95/96/97 RDT&E funds are under Program Element 603108F, R1 Integrated Data Systems. Air Force Other Procurement funding for FY98 and FY99 will purchase computer hardware, local area networks and servers as needed at Air Force Wings, Depots, Major Commands, and HQ USAF for IMDS deployment.

10. **PERSONNEL ADMINISTRATION:** This program provides the equipment to modernize the Manpower and Personnel Base-Level (MANPER-B) portion of the Deliberate and Crisis Action Planning and Execution System (DCAPES). FY98/99 funding will procure commercial-off-the-shelf (COTS) desktop and notebook computers and secure telephone equipment to replace the current inventory of in-garrison/deployable DCAPES/MANPER-B computers for Air Force Personnel Center. This will eliminate critical shortfalls in meeting DoD, Joint Chief of Staff, and AF total force personnel accountability and reporting requirements. It will also support unclassified/classified data reporting over Defense Data Network (DDN) as mandated by DoD.

11. **ANG/AFR:** The following is a breakout of funding for equipment used by ANG/AFR within this P-1 line.

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	-		2.952	-		.634
FY97	-		1.727	-		.350
FY98			0			0
FY99			0			0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME  BASE LEVEL DATA AUTOMATION				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A							
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
1. WING ADP SUPPORT	A	VAR	N/A	5,941	VAR	N/A	5,184	VAR	N/A	6,982	VAR	N/A	7,675
2. WIMS/SIMS/BCAS	A	VAR	N/A	1,976	VAR	N/A	5,685	VAR	N/A	4,749			
3. AETC WANG REPL	A	VAR	N/A	2,237									
4. CMOS	A	VAR	N/A	183				VAR	N/A	414	VAR	N/A	323
5. GCSS-AF	A	VAR	N/A	11,516	VAR	N/A	8,196						
6. FAMS	A	VAR	N/A	4,052	VAR	N/A	3,320	VAR	N/A	9,856	VAR	N/A	9,603
7. IPMS	A	VAR	N/A	760									
8. SPS	B							VAR	N/A	17,725	VAR	N/A	14,147
9. IMDS SYSTEM	B							VAR	N/A	2,866	VAR	N/A	2,827

**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997																			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME  BASE LEVEL DATA AUTOMATION			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A																									
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999																		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST																
10. PERSONNEL ADMIN		A																2,090												
TOTAL					26,665											VAR	N/A	4,186	VAR	N/A				46,778						36,665

Exhibit P-5 Weapon System Cost Analysis		
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE LEVEL DATA AUTOMATION								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

1. WING ADP SUPPORT										
FY96	MULTIPLE	OPT/FP 1	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A <sup>2</sup>			
FY97	MULTIPLE	OPT/FP 1	AFMC/ESC-SSG	NOV 96	JAN 97	VAR	N/A <sup>2</sup>			
FY98	MULTIPLE	OPT/FP 1	AFMC/ESC-SSG	NOV 97	JAN 98	VAR	N/A <sup>2</sup>	YES	NO	
FY99	MULTIPLE	OPT/FP 1	AFMC/ESC-SSG	NOV 98	JAN 99	VAR	N/A <sup>2</sup>	YES	NO	
2. WIMS/SIMS/BCAS										
FY96	PRC CORP	OPT/FP 3	AFMC/ESC-SSG	MAY 96	NOV 96	VAR	N/A <sup>2</sup>			
FY97	PRC CORP	OPT FP 3	AFMC/ESC-SSG	MAR 97	JUN 97	VAR	N/A <sup>2</sup>	YES	NO	
FY98	PRC CORP	OPT/FP 3	AFMC/ESC-SSG	MAR 98	JUN 98	VAR	N/A <sup>2</sup>	YES	NO	
	MCLEAN, VA									
3. AETC WANG REPL										
FY96	ELECT SYSTEMS RICHMOND, VA	C/FP	HQ AETC	MAR 96	JUN 97	VAR	N/A <sup>2</sup>			
4. CMOS										
FY96	INTERMIC CORP.	OPT/FP 4	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A <sup>2</sup>			
FY98	INTERMIC CORP.	OPT/FP 4	AFMC/ESC/SSG	OCT 97	MAR 98	VAR	N/A <sup>2</sup>	YES	NO	
FY99	INTERMIC CORP. EVERETT, WA	OPT/FP 4	AFMC/ESC/SSG	OCT 98	MAR 99	VAR	N/A <sup>2</sup>	YES	NO	

D. REMARKS		P-1 SHOPP LIST		PAGE NO.		Exhibit P-5a Procurement History and Planning	
1. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.		ITEM NO.		58		1 1 1	
2. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.							
3. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR.							
4. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMIC CORP.							
5. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESellschaft GESCHAFTSFELD AUTOMATISIERUNGSTESCH (GERMANY)							
6. OPTIONS TO DT IV AND V STANDARD CONTRACTS.							
7. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.							

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE LEVEL DATA AUTOMATION								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		
5. GCSS-AF	FY96	LOCKHEED MARTIN FEDERAL SYSTEMS	C/FP	AFMC/ESC-SSG	MAY 96	AUG 96	VAR	N/A 2				
	FY97	LOCKHEED MARTIN FEDERAL SYSTEMS COLORADO SP, CO	OPTION/FP	AFMC/ESC-SSG	NOV 96	JAN 97	VAR	N/A 2				
6. FAMS	FY96	MULTIPLE	OPT/FP 5	USAFE & AFMC/ SAALC	APR 96	JUN 96	VAR	N/A 2				
	FY97	MULTIPLE	OPT/FP 5	USAFE & AFMC/ SAALC	NOV 96	JAN 97	VAR	N/A 2				
	FY98	MULTIPLE	OPT/FP 5	AFMC/SAALC	NOV 97	JAN 98	VAR	N/A 2	YES	NO		
	FY99	MULTIPLE	OPT/FP 5	AFMC/SAALC	NOV 98	JAN 99	VAR	N/A 2	YES	NO		
7. IPMS	FY96	UNISYS MONTGOMERY, AL	C/FP	AFMC/ESC-SSG	APR 96	JUN 96	VAR	N/A 2				
D. REMARKS												
1. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY.												
2. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE.												
3. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR.												
4. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMIC CORP.												
5. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESellschaft GESCHAFTSFELD AUTOMATISIERUNGSTESCH (GERMANY)												
6. OPTIONS TO DT IV AND V STANDARD CONTRACTS.												
7. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.												
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						BASE LEVEL DATA AUTOMATION	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
8. STD PROCUREMENT SYSTEM (SPS)											
FY98	MULTIPLE	OPT/FP 6	11 SPT WG	FEB 98	JUN 98	VAR	N/A 2	YES	NO		
FY99	MULTIPLE	OPT/FP 6	11 SPT WG	FEB 99	JUN 99	VAR	N/A 2	YES	NO		
9. IMDS SYSTEM											
FY98	SUN MICRO SYS	OPT/FP 7	AFMC/ESC	FEB 98	AUG 98	VAR	N/A 2	YES	NO		
	HUGHES DATA SYS										
FY99	SUN MICRO SYS	OPT/FP 7	AFMC/ESC	FEB 99	AUG 99	VAR	N/A 2	YES	NO		
	MTN VIEW, CA										
	HUGHES DATA SYS										
	IRVINE, CA										
10. PERSONNEL ADMIN											
FY98	MULTIPLE	OPT/FP 1	HQ AFPC	NOV 98	JAN 99	VAR	N/A 2	YES	NO		
FY99	MULTIPLE	OPT/FP 1	HQ AFPC	NOV 99	JAN 00	VAR	N/A 2	YES	NO		
<b>D. REMARKS</b> 1. OPTIONS TO MULTIPLE CONTRACTS OFF THE GSA SCHEDULE. AWARD/DELIVERY DATES REPRESENT THE DATE OF FIRST AWARD AND DELIVERY. 2. QUANTITY/UNIT COSTS VARY DEPENDING ON CONFIGURATION OF EACH SITE. 3. OPTION TO SUPER MINI CONTRACT. PRC CORP IS PRIME CONTRACTOR. 4. OPTION TO THE FY94 AUTOMATIC IDENTIFICATION TECHNOLOGY CONTRACT WITH INTERMIC CORP. 5. OPTIONS TO CONTRACTS WITH SYN-TECH (TALLAHASSEE, FL), TRANS-FLO INSTRUMENTS LTD (UK), ITT BARTON (CA), AEG AKTIENGESELLSCHAFT GESCHAFTSFELD AUTOMATISIERUNGSTESCH (GERMANY) 6. OPTIONS TO DT IV AND V STANDARD CONTRACTS. 7. OPTIONS TO THE NEW STANDARD AIR FORCE WORKSTATION CONTRACT AWARDED BY AFMC/ESC MARCH 1996 TO SUN MICRO SYSTEMS, MOUNTAIN VIEW, CA AND HUGHES DATA SYSTEMS, IRVINE, CA.											
				P-1 SHOPP LIST ITEM NO.	PAGE NO.		Exhibit P-5a Procurement History and Planning				
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)	DATE FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPA/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			THEATER BATTLE MANAGEMENT CORE SYSTEM					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	51.485	47.897	48.989	45.886	50.315	55.191	48.272	46.884

The Theater Battle Management Core System (TBMCS) procurement line funds the purchase of state-of-the-art equipment to satisfy Air Force requirements for automated support of command and control (C2) functions at both force and wing levels worldwide. TBMCS encompasses four principal constituent systems: (1) the Contingency Theater Automated Planning System (CTAPS), (2) the Wing Command and Control System (WCCS), (3) the Command and Control Information Processing System (C2IPS), and (4) the Combat Intelligence System (CIS). As the functions of the constituent systems migrate into an integrated system, the funding for the constituent procurements are programmed under the title of the umbrella system (TBMCS). Funding is requested for the constituent CTAPS and WCCS during FY96 and FY97, but funding is requested for the integrated system during FY98 and FY99. The Combat Intelligence System (CIS), another function of TBMCS, is funded in the P-1 Line Intelligence Data Handling System, # 38.

1. **THEATER BATTLE MANAGEMENT CORE SYSTEMS (TBMCS):** FY98/99 funds will provide technical upgrades to the fielded Air Operations Centers (AOCs) necessary for them to sustain operations in the information-rich world of the future. The funds will also procure a full complement of equipment for four (4) wing level installations in FY98 (Kadena AB, JPN; Nellis AFB, NV; Kunsan AB, ROK; and Davis-Monthan AFB, AZ), and five installations during FY99 (Yokota AB, JPN; Moody AFB, GA; Pope AFB, SC; Hickam AFB, HI; and one Guard/Reserve base). Additionally, FY98/99 funds initiate procurement, integration, and deployment of the Combat Integration Capability (CIC) into the AOCs to process time critical targets (TCTs) during the execution of daily operations. The CIC will allow the commander to monitor the battle space, discriminate TCTs from other tactical activity, identify the best available weapon to engage the TCT, and coordinate engagement of the weapon and weapon platform. Also included in the FY98 request are two deployable Information Processing System (IPS) Nodes to be fielded at Ramstein AB Germany, and one fixed IPS Node to be fielded at Mildenhall AB, UK. These Nodes provide command and control visibility of Air Mobility Command (AMC) missions and assets. FY98/99 funds also provide Type I training, engineering support, system program office support, and required software licenses for TBMCS applications.

a. **CONTINGENCY THEATER AUTOMATED PLANNING SYSTEM (CTAPS)**: CTAPS provides a joint standard for execution and planning of Air Tasking Orders (ATOs) at the Air Operations Center (AOC), supporting fixed and deployed contingency air operations under a Joint Forces Air Component Commander (JFACC). It permits the JFACC and his staff to adjust planning in response to changing battlefield conditions and provides the means to produce, disseminate and execute the daily ATO. The system will replace cumbersome manual processes and directly support the JFACC in planning and executing the theater air campaign down to the unit level. CTAPS government furnished equipment (GFE) consists of commercial-off-the-shelf (COTS) workstations/servers, network equipment and initial software licenses necessary to operate CTAPS.

Furthermore, CTAPS provides upgraded shelters and essential computer and communications equipment at both the Air Operations Centers and the Air Support Operations Centers (ASOC). The ASOC is critical link between engaged ground forces and air operations; it is collocated with the Army Corps, tying the

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

DATE					FEBRUARY 1997				
APPROPRIATION/BUDGET ACTIVITY					P-1 ITEM NOMENCLATURE				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					THEATER BATTLE MANAGEMENT CORE SYSTEM				
FY 1996					FY 1997				
FY 1998					FY 1999				
FY 2000					FY 2001				
FY 2002					FY 2003				
QUANTITY									
COST (In Mil)									

Forward Air Controller (FAC) to the combat operations cell of the AOC. CTAPS will enhance the speed and accuracy of JFACC responses to Army air support requirements.

FY96 funds procured (1) AOC government furnished equipment (GFE) procurement at Continental U.S. (CONUS), U.S. Air Forces in Europe (USAFE ) and Pacific Air Forces (PACAF) sites; (2) seven ASOC shelters with associated integration and assembly, workstations and other GFE for the ASOC squadrons operating from Shaw AFB, SC; Ft Hood, TX; Korea and Germany; and (3) CTAPS GFE for the AF Special Operations Command (AFSOC).

FY97 funds will: (1) procure the last five ASOC shelters with associated integration and assembly, workstations and other GFE to complete the ASOC implementation in Germany and for squadrons at Murray, WA; and Peoria, IL; (2) begin technical upgrades for all fielded CTAPS workstations; and (3) procure additional CTAPS GFE for AFSOC.

FY96-97 funds also provide Type 1 training and engineering support for CTAPS implementation at the numbered Air Forces and continue ongoing engineering support to the production and deployment effort.

FY98-99 are discussed at the TBMCS level above (see paragraph 1).

b. **WING COMMAND AND CONTROL SYSTEM (WCCS):** WCCS provides workstations and local area networks to give wing level commanders and battle staffs a timely and accurate composite picture of wing resources, enabling effective decision-making and increasing sortie generation capability. WCCS is the TBMCS constituent system that receives and disseminates C2 information at the wing level.

FY96 funding procured a full complement of equipment for Osan AB, ROK; Langley AFB, VA; and a partial complement of equipment for Air Force Special Operations Command (AFSOC) contingents at Kadena AB, JPN and Osan AB, ROK.

FY97 funding procures a full complement of equipment for Incirlik AB, Turkey; Shaw AFB, SC; AFSOC at Hurlburt Field, FL; and a partial complement of equipment for an AFSOC contingent at RAF Mildenhall, UK.

Additionally, FY96-97 funding provides for Type-I Training and engineering/program support for WCCS implementation/deployment efforts.

FY98-99 are discussed at the TBMCS level above (see paragraph 1).

(continued)

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BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)DATE  
FEBRUARY 1997

## APPROPRIATION/BUDGET ACTIVITY

## P-1 ITEM NOMENCLATURE

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## THEATER BATTLE MANAGEMENT CORE SYSTEM

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

**ANG/AFR:** The following resources are allocated to extending WCCS workstations and networks to ANG/AFR tenants during installation at active air bases.

	ANG		AFR	
	QTY	COST	QTY	COST
FY96	-	.175	-	.400
FY97	-	.175	-	.400
FY98	-	.175	-	.400
FY99	-	.175	-	.400

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WEAPON SYSTEM COST ANALYSIS  
(EXHIBIT P-5)D. DATE  
FEBRUARY 1997

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.	B. WEAPON MODEL/SERIES/ POPULAR NAME THEATER BATTLE MANAGEMENT CORE SYSTEM	C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. TBMCS	A							VAR	N/A	(48,989)	VAR	N/A	(45,886)
HARDWARE CTAPS AOC								VAR	N/A	12,483	VAR	N/A	5,580
WCCS								VAR	N/A	13,824	VAR	N/A	19,950
CIC								VAR	N/A	9,500	VAR	N/A	9,500
IPS NODES								3	1,100	3,300			
COTS SW LICENSES								VAR	N/A	3,000	VAR	N/A	3,500
TYPE 1 TRAINING										1,400			1,540
ENG./SPO SPT.										5,482			5,816
A. CTAPS	A	VAR	N/A	(36,989)	VAR	N/A	(32,567)						
AOC	A												

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## WEAPON SYSTEM COST ANALYSIS (EXHIBIT P-5)

D. DATE  
FEBRUARY 1997

C. MANUFACTURER NAME/PLANT/ CITY/STATE  
LOCATION  
See Manufacturing Information on P-5A

B. WEAPON MODEL/SERIES/ POPULAR NAME  
THEATER BATTLE MANAGEMENT CORE SYSTEM

A. APPROPRIATION/BUDGET ACTIVITY  
TITLE/NO.  
OPAF/ELECTRONICS &  
TELECOMMUNICATIONS EQUIPMENT

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
1. AOC GFE													
2. TECH. UPGR/WKSTNS				10,408	VAR	N/A	15,360						
3. TYPE 1 TRAINING				1,124			1,250						
4. ENG SUPPORT				6,039			5,388						
5. COTS S/W LICENSES				9,871	VAR	N/A	1,996						
ASOC													
1. ASOC SHELTERS	A	7	30	210	5	31	155						
2. INTEGRATION & ASSY		7	588	4,115	5	586	2,933						
3. ASOC WORKSTNS		VAR	N/A	2,377	VAR	N/A	1,685						
4. OTHER GFE		VAR	N/A	2,523	VAR	N/A	1,816						
5. TYPE 1 TRAINING						N/A	1,500						
AFSOC GFE													
A		VAR	N/A	322	VAR	N/A	484						
B. WCCS													
A		VAR	N/A	(14,496)	VAR	N/A	(15,330)						
1. USAF COMMAND & CONTROL (C2)													
SYS MODERNIZATION													
2. PACAF C2 SYSTEM MODERNIZATION		VAR	N/A	5,837	VAR	N/A	2,336						

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# UNCLASSIFIED



**UNCLASSIFIED**

**WEAPON SYSTEM COST ANALYSIS  
(EXHIBIT P-5)**

**D. DATE**  
FEBRUARY 1997

**A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.**

**B. WEAPON MODEL/SERIES/ POPULAR NAME**  
THEATER BATTLE MANAGEMENT CORE SYSTEM

**C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION**

See Manufacturing Information on P-5A

**OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT**

Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
3. ACC C2 SYSTEM MODERNIZATION		VAR	N/A	5,448	VAR	N/A	4,536						
4. AFSOC MODERNIZATION		VAR	N/A	593	VAR	N/A	5,780						
5. TYPE I TRAINING				345			200						
6. ENGR/PROGRAM SPT				2,273			2,478						
<b>TOTAL</b>				51,485			47,897			48,989			45,886

Exhibit P-5 Weapon System Cost Analysis

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**UNCLASSIFIED**



## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		THEATER BATTLE MANAGEMENT CORE SYSTEM								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. TBMCS										
HARDWARE										
FY98	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ <sup>1</sup>	AFMC/ESC	OCT 97	DEC 97	VAR	N/A <sup>2</sup>	YES	NO	
FY99	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ <sup>1</sup>	AFMC/ESC	OCT 98	DEC 98	VAR	N/A <sup>2</sup>	YES	NO	
CIC										
FY98	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ <sup>1</sup>	AFMC/ESC	OCT 97	DEC 97	VAR	N/A <sup>2</sup>	YES	NO	
FY99	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ <sup>1</sup>	AFMC/ESC	OCT 98	DEC 98	VAR	N/A <sup>2</sup>	YES	NO	
IPS NODES										
FY 98	COMPUTER SCIENCES CORP, MORRISTOWN, NJ	FFP	AFMC/ESC	OCT 98	FEB 98	3	1.1	YES	NO	

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

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# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				THEATER BATTLE MANAGEMENT CORE SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

A. CTAPS	AOC									
	1. AOC GFE FY96	SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ <sup>1</sup>	AFMC/ESC	APR 96	MAY 96	VAR	N/A <sup>2</sup>		
2. TECH UPGRD/WKSTNS FY97		SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ <sup>1</sup>	AFMC/ESC	OCT 96	DEC 96	VAR	N/A <sup>2</sup>		
	ASOC									
1. ASOC SHELTERS FY96		ARMY / MARION COMPOSITES FALLS CHURCH, VA	MIPR/ OPT/FFP <sup>9</sup>	AFMC/ESC	JUL 96	AUG 96	7	30		
	FY97	ARMY / MARION COMPOSITES, FALLS CHURCH, VA	MIPR/ OPT/FFP <sup>10</sup>	AFMC/ESC	OCT 96	DEC 96	5	31		

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

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## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				THEATER BATTLE MANAGEMENT CORE SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 2. INTEGRATION &amp; ASSY

FY96

FY97

## 3. ASOC WORKSTNS

FY96

FY97

## 4. OTHER GFE

FY96

FY97

LMCCS, COLORADO SPRINGS, CO	OPT/FFP 3	AFMC/ESC	JUL 96	AUG 96	7	588				
LMCCS, COLORADO SPRINGS, CO	OPT/FFP 3	AFMC/ESC	JAN 97	FEB 97	5	586	YES		NO	
SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ 1	AFMC/ESC	JUL 96	AUG 96	VAR	N/A 2				
SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ 1	AFMC/ESC	OCT 96	DEC 96	VAR	N/A 2				
SUN MICRO SYS., MOUNTAIN VIEW, CA & HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ 4	AFMC/ESC	JUL 96	AUG 96	VAR 5	N/A 5				
SUN MICRO SYS., MOUNTAIN VIEW, CA and HUGHES DATA SYS., IRVINE, CA	OPT/IDIQ 4	AFMC/ESC	OCT 96	DEC 96	VAR 5	N/A 5				

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.P-1 SHOPP LIST  
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Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

#### C. P-1 ITEM NOMENCLATURE

#### THEATER BATTLE MANAGEMENT CORE SYSTEM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
------------------------------	-------------------------	------------------------------	------------------	---------------	------------------------------	----------	--------------	----------------------	----------------------	--------------------------

AFSOC GFE  
FY 96

SUN MICRO SYS.,  
MOUNTAIN VIEW, CA  
and  
HUGHES DATA SYS.,  
IRVINE, CA

OPT/IDIQ 1

AFMC/ESC

APR 96

MAY 96

VAR 6

VAR 6

FY 97

SUN MICRO SYS.,  
MOUNTAIN VIEW, CA  
and  
HUGHES DATA SYS.,  
IRVINE, CA

OPT/IDIQ 1

AFMC/ESC

OCT 96

NOV 96

VAR 6

VAR 6

B. WCCS

1. USAF C2 SYS MODS

FY97

SUN MICRO SYS.,  
MOUNTAIN VIEW, CA  
and  
HUGHES DATA SYS.,  
IRVINE, CA

OPT/IDIQ 1

AFMC/ESC

OCT 96

DEC 96

VAR

N/A 7

2. PACAF C2 SYS MODS

FY96

SYLVEST MGT SYS,  
LANHAM, MD

OPT/IDIQ 8

AFMC/ESC

OCT 95

NOV 95

VAR

N/A 7

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

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# UNCLASSIFIED

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	C. P-1 ITEM NOMENCLATURE THEATER BATTLE MANAGEMENT CORE SYSTEM						
				AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 3. ACC C2 SYS MODERNIZATION

FY96

SYLVEST MGT SYS,  
LANHAM, MDOPT/IDIQ <sup>8</sup>

AFMC/ESC

MAR 96

APR 96

VAR

N/A <sup>7</sup>

FY97

SUN MICRO SYS.,  
MOUNTAIN VIEW, CA  
and  
HUGHES DATA SYS.,  
IRVINE, CAOPT/IDIQ <sup>1</sup>

AFMC/ESC

DEC 96

FEB 97

VAR

N/A <sup>7</sup>

YES

NO

## 4. AFSOC MODERNIZATION

FY96

SUN MICRO SYS.,  
MOUNTAIN VIEW, CA  
and  
HUGHES DATA SYS.,  
IRVINE, CAOPT/IDIQ <sup>1</sup>

AFMC/ESC

APR 96

MAY 96

VAR

N/A <sup>7</sup>

FY97

SUN MICRO SYS.,  
MOUNTAIN VIEW, CA  
and  
HUGHES DATA SYS.,  
IRVINE, CAOPT/IDIQ <sup>1</sup>

AFMC/ESC

OCT 96

MAR 97

VAR

N/A <sup>7</sup>D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		THEATER BATTLE MANAGEMENT CORE SYSTEM					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST
						SPEC AVAIL NOW	SPEC REV REQ'D
							IF YES, WHEN AVAIL

- Options to the new Air Force Workstation Contract awarded March 1996 to Sun Micro Systems, Mountain View, CA. and Hughes Data Systems, Irvine, CA.
- Varying unit costs due to number/types of equipment being procured for specific sites.
- Options to the Theater Battle Mgt. Integration & Development contract awarded Oct 95 to Lockheed-Martin Command & Control Systems, Colorado Springs, CO.
- Equipment will be procured through both the new Workstation Contract (reference footnote 1) and off the GSA schedule.
- Other GFE includes various support equipment such as peripheral devices, local area networks, printers, communications security equipment, etc. Unit costs vary because of the multiple types of equipment being procured.
- Eight workstations will be procured for the AFSOC along with associated support equipment. Unit costs vary.
- Procures various workstations and servers for site-specific configurations resulting in various unit costs.
- Option to AFMC/ESC Sun Workstation contract (F19628-95-C-0222) which filled hardware requirements before award of new workstation contract in footnote 1.
- Option to contract #DAAK-01-94-C-0070.
- Option to contract #DAAK-01-95-C-0102.

D. REMARKS  
DUE TO SPACE LIMITATIONS, FOOTNOTES APPEAR AT THE END OF THIS P-5A.

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# UNCLASSIFIED

## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		INFORMATION TRANSMISSION SYSTEMS						
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	16.864	12.195	10.889	11.090	10.243	11.192	3.726	3.620

Information Transmission Systems provides funding to interconnect information processing equipment (workstations, printers, etc.) and information transport systems (base-wide fiber optic networks) to form an integrated information resource infrastructure that can meet the information demands of varying organizational structures. The Information Transmission System line supports requirements for local and wide area networks (LANs/WANs), including system design, engineering, installation and acceptance testing; LAN/WAN equipment items (network file servers, network management systems, network storage units, etc.); and transmission components (multiplexers, bridges, routers, cabling, etc.).

**HQ 11TH SUPPORT WING:** This project upgrades existing LAN capabilities at Bolling AFB, Washington DC. Funding procures file servers, bridges, LAN workstations, network interface units and cards, repeaters and fiber optic connections necessary to ensure horizontal and vertical coordination capability. These funds also support the wide area network acquisition for Korean Battle Simulation Center. Funds were used to procure routers and multiplexors in lieu of leasing equipment. This equipment also supports the Uchi Focus Lens (UFL) joint wargaming exercise.

**HQ AIR COMBAT COMMAND (ACC):** FY96 funding installed/upgraded information transmission systems at Cannon AFB, NM; Davis-Monthan AFB, AZ; Ellsworth AFB, SC; Little Rock AFB, AR; Minot AFB, ND; Mountain Home AFB, ID; Nellis AFB, NV; Offutt AFB, NE; Pope AFB, NC; and Shaw AFB, SC. Site configurations vary by base depending on the size and mission at each location. Procured equipment includes servers, routers, hubs, high speed multiplexors, software, fiber optic cable and similar LAN support equipment. FY97-99 funding will continue to provide for the installation of information transmission systems at approximately 10 sites per year.

**HQ US AIR FORCE EUROPE (USAFE):** This funding purchases servers and infrastructure upgrades (network interface cards) to complete increased network backbone (switches and hubs) capability. Bases that were upgraded in FY96 included Aviano AB, Italy, Zapalla AB, Spain, and RAF Fairford, UK. FY97-99 will provide for upgrades to include Ramstein AFB GE (Weather, radar, and cable upgrade), Incirlik Turkey (RAPCON Radios) and Spangdahlem AFB GE (ATC Consoles).

**HQ AIR FORCE SPACE COMMAND (AFSPC):** This funding supports Command Wide LAN Networks, ITWAA/ICBM and Base Level missions. FY 96 funding supported LAN implementation upgrades for Patrick AFB, FL, 14<sup>th</sup> AF Vandenberg (CA) Operations Center, FE Warren (WY) Operations Center, and Falcon AFB, CO, and the Cheyenne Mountain Network. Various pieces of equipment (servers, network interface units, bridges, computers, etc.) were installed in accordance with the size and mission of each location. FY 97-99 funding will replace existing networks, expands customer base and allows for science and technological changes at numerous sites.

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## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)DATE  
FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		INFORMATION TRANSMISSION SYSTEMS				
		FY 1995	FY 1996	FY 1997	FY 1998	FY 1999
QUANTITY						
COST (in Mil)						

**HQ AIR MOBILITY COMMAND (AMC):** This funding provided base Command, Control, Communications and Computers (C4) infrastructure providing the fiber backbone for base-wide multi-media connectivity in order for AMC to complete its mission as the DoD Single Manager for Airlift. AMC requires an effective C4 system that provides for efficient centralized management of the entire US strategic mobility fleet. Intra-building network infrastructure that includes physical network, cabling, routers, bridges, repeaters, servers, network operating system, installation support, and initial technical training were installed at various AMC locations.

**HQ AIR FORCE MATERIEL COMMAND (AFMC):** FY96 funding provided upgrades for the Kirtland AFB, NM wide area network (WAN) information resource infrastructure. These upgrades provide an effective bandwidth that supports the information demands of various organizations within the base community, and accommodates access between varying networks and the Internet. These upgrades also provided the capability for future expansion in accordance with changing mission requirements. FY97/98/99 will provide funding for the AFMC Base Network Systems (BNS) transition to newer technology. The existing broadband BNS is over ten years old and burdened with out-of-date technology. The current system provides over 60,000 BNS connections for users, hosts, and printers across the command. Upgrading and replacing this old technology to a standards-based network is a mission essential requirement for supporting the depot maintenance and logistics support functions.

**HQ AIR EDUCATION AND TRAINING COMMAND (AETC):** These funds support the information transmission systems utilized by AETC. The Air University Distributed Information System (AUDIS) LAN supports education excellence by procuring tools to provide reliable and sufficient access information. FY 96-99 funds establish the information infrastructure (local area network and associated equipment) to facilitate research, enhance curriculum, conduct modeling and simulation (war games), and provide information required to execute the education mission. The AETC LAN Technology Refreshment Program supports acquisition and installation of equipment and software for the continuation of a command-wide enterprise network to interconnect similar and dissimilar smaller networks. FY 96-99 funding will continue to expand and upgrade the network connectivity to functional communities that have inadequate or no existing connectivity.

**HQ PACIFIC AIR FORCE (PACAF):** FY 97-99 funding will support information transmission upgrades for Hickam AFB (HI), Elmendorf AFB (AK), Eielson AFB (AK), Andersen AFB (Guam), Yokota AB (JA), Misawa AB (JA), Kunsan AB (KOR), and Osan AB (KOR). Site configurations vary by base depending on the size and mission at each location. Specifically, funds will be used to expand the PACAF-wide Secret-level Network, procure the RELROK (Releasable to the Republic of Korea) dissemination system supporting the warfighter's access to essential, releasable to Korea C2I data, the Korean Air Battle Simulation Center, the PACAF Intra-net; and switch upgrades.

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## UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME INFORMATION TRANSMISSION SYSTEMS				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A	
D. DATE FEBRUARY 1997									
Weapon System Cost Elements				FY 1996				FY 1997	
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

HQ 11TH SUPPORT WING	A	VAR	1,643	VAR	N/A	3,144	VAR	N/A	3,631	VAR	N/A	3,667
HQ ACC	A	VAR	3,062	VAR	N/A	1,912	VAR	N/A	1,900	VAR	N/A	1,974
HQ USAFE	A	VAR	1,791	VAR	N/A	2,700	VAR	N/A	997	VAR	N/A	995
HQ AFSPC	A	VAR	4,243	VAR	N/A	1,736	VAR	N/A	1,645	VAR	N/A	1,742
HQ AMC	A	VAR	2,810	VAR	N/A	1,686	VAR	NA	1,694	VAR	NA	1,692
HQ AFMC	A	VAR	469	VAR	N/A	1,017	VAR	N/A	1,022	VAR	N/A	1,020
HQ AETC	A	VAR	2,846	VAR	N/A	12,195	VAR	N/A	10,889	VAR	N/A	11,090
HQ PACAF	A	VAR	16,864	VAR	N/A		VAR	N/A		VAR	N/A	
TOTAL												

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## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE INFORMATION TRANSMISSION SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. HQ 11TH SUPPORT WING FY96 Bolling AFB LAN WAN for Korean Battle Simulation	MULTIPLE 1 MULTIPLE 1	OPT/FFP1 OPT/FFP1	11TH SPT WING US ARMY INFORMATION SYSTEMS COMMAND	AUG 96 AUG 96	SEP 96 AUG 96	VAR VAR	N/A <sup>2</sup> N/A <sup>2</sup>			
2. HQ ACC FY96 FY 97 FY98 FY99	MULTIPLE 1 MULTIPLE 1 MULTIPLE 1 MULTIPLE 1	OPT/FP 1 OPT/FP 1 OPT/FP 1 OPT/FP 1	HQ ACC HQ ACC HQ ACC HQ ACC	VAR VAR VAR VAR	MULTI MULTI MULTI MULTI	VAR VAR VAR VAR	N/A <sup>2</sup> N/A <sup>2</sup> N/A <sup>2</sup> N/A <sup>2</sup>	YES YES YES YES	NO NO NO NO	
3. HQ USAFE FY96 FY97 FY98 FY99	MULTIPLE 1 MULTIPLE 1 MULTIPLE 1 MULTIPLE 1	OPT/FP 1 OPT/FP 1 OPT/FP 1 OPT/FP 1	HQ USAFE HQ USAFE HQ USAFE HQ USAFE	JUN 96 JUN 97 JUN 98 JUN 99	JUL 96 JUL 97 JUL 98 JUL 99	VAR VAR VAR VAR	N/A <sup>2</sup> N/A <sup>2</sup> N/A <sup>2</sup> N/A <sup>2</sup>	YES YES YES YES	NO NO NO NO	
4. HQ AFSPC FY96 FY97 FY98 FY99	MULTIPLE 1 MULTIPLE 1 MULTIPLE 1 MULTIPLE 1	OPT/FP 1 OPT/FP 1 OPT/FP 1 OPT/FP 1	HQ AFSPC HQ AFSPC HQ AFSPC HQ AFSPC	MAY 97 MAY 97 JAN 98 JAN 99	JUL 97 JUL 97 MAR 98 MAR 99	VAR VAR VAR VAR	N/A <sup>2</sup> N/A <sup>2</sup> N/A <sup>2</sup> N/A <sup>2</sup>	YES YES YES YES	NO NO NO NO	

## D. REMARKS

- MULTIPLE TYPES OF EQUIPMENT BEING PROCURED. OPTIONS WERE USED TO PROCURE EQUIPMENT FROM THE GENERAL SERVICES ADMINISTRATION SCHEDULE, THE AF MINICOMPUTER MULTI-USER SYSTEM, AFCAC 308, UNIFIED LOCAL AREA NETWORK ARCHITECTURE (ULANA) II, AND DESKTOP IV CONTRACTS. AWARD AND DELIVERY DATES, WHERE APPLICABLE, REFLECT DATE OF FIRST AWARD/DELIVERY.
- MULTIPLE PIECES OF EQUIPMENT AND QUANTITIES PROCURED RESULTING IN VARYING UNIT COSTS.

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Exhibit P-5a Procurement History and Planning

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# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				INFORMATION TRANSMISSION SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

5. HQ AMC										
FY96	MULTIPLE 1	OPT/FP 1	HQ AMC	JUL 96	SEP 96	VAR	N/A 2			
6. HQ AFMC										
FY96	GSA KANSAS CITY, MO	MIPR/C/FP	HQ AFMC	NOV 96	FEB 97	VAR	N/A 2			
FY97	UNKNOWN	MIPR/C/FP	HQ AFMC	APR 97	AUG 97	VAR	N/A	YES	NO	
FY98	UNKNOWN	MIPR/C/FP	HQ AFMC	APR 98	AUG 98	VAR	N/A	YES	NO	
FY99	UNKNOWN	MIPR/C/FP	HQ AFMC	APR 99	AUG 99	VAR	N/A	YES	NO	
7. HQ AETC										
FY96 - AUDIS LANS	MULTIPLE 1	OPT/FP 1	HQ AETC	JUN 96	AUG 96	VAR	N/A 2			
FY97 - AUDIS LANS	MULTIPLE 1	OPT/FP 1	42ABW/LGC	DEC 96	JAN 97	VAR	N/A 2			
- AETC LANS	MULTIPLE 1	OPT/FP 1	HQ AETC	JUN 97	JUL 97	VAR	N/A 2	YES	NO	
FY98 - AUDIS LANS	MULTIPLE 1	OPT/FP 1	42ABW/LGC	DEC 97	MAR 98	VAR	N/A 2	YES	NO	
FY99 - AUDIS LANS	MULTIPLE 1	OPT/FP 1	42ABW/LGC	DEC 98	MAR 99	VAR	N/A 2	YES	NO	
8. HQ PACAF										
FY97	MULTIPLE 1	OPT/FP 1	HQ PACAF	JUN 97	JUL 97	VAR	N/A 2	YES	NO	
FY98	MULTIPLE 1	OPT/FP 1	HQ PACAF	JUN 98	JUL 98	VAR	N/A 2	YES	NO	
FY99	MULTIPLE 1	OPT/FP 1	HQ PACAF	JUN 99	JUL 99	VAR	N/A 2	YES	NO	

### D. REMARKS

- MULTIPLE TYPES OF EQUIPMENT BEING PROCURED. OPTIONS WERE USED TO PROCURE EQUIPMENT FROM THE GENERAL SERVICES ADMINISTRATION SCHEDULE, THE AF MINICOMPUTER MULTI-USER SYSTEM, AFCAC 308, UNIFIED LOCAL AREA NETWORK ARCHITECTURE (ULANA) II, AND DESKTOP IV CONTRACTS. AWARD AND DELIVERY DATES, WHERE APPLICABLE, REFLECT DATE OF FIRST AWARD/DELIVERY.
- MULTIPLE PIECES OF EQUIPMENT AND QUANTITIES PROCURED RESULTING IN VARYING UNIT COSTS.

P-1 SHOPP LIST ITEM NO. 60		PAGE NO. 130	Exhibit P-5a Procurement History and Planning
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UNCLASSIFIED

UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)				FEBRUARY 1997	
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	27.523 *	82.333*	88.945	102.126	119.174	119.577	114.823	115.579	

Base Information Infrastructure (BII) fulfills the Air Force's portion of the National Information Infrastructure (NII) and the Defense Information Infrastructure (DII) initiatives. BII will replace maintenance intensive equipment, replace or upgrade existing digital switching systems, provide network management of information systems and local area networks, and increase the capability of saturated information transmission systems to facilitate the rapid dissemination of vital command and control and business processing systems information, e.g., voice, data, video, imagery, and telemetry. BII is essential to successful expeditionary warfare, especially for sustained combat operations within a Major Regional Conflict (MRC). Deployed forces will rely on the base-level information "grid" to "reach back" from the area of responsibility (AOR) to command echelons located at the home-station and/or CONUS bases for command and control direction and logistical support. In essence, BII will provide every base the information transport environment needed to ensure that Air Force decision-makers and warfighters have access to information when, where, and how they need it to win in war. Under the BII umbrella is the Combat Information Transport System (CITS) which consists of the following components: (1) Voice Switching Systems (VSS); (2) Information Transport Systems (ITS); (3) Telecommunications Management Systems (TMS); (4) Network Management System (NMS); and (5) Base Information Protect (BIP). Details of each program are outlined below.

\* Funding for the ANG and Civil Engineers (CE) was formerly funded/appropriated in this P-1 Line. These projects have now been consolidated under P-1 Line #77 "Base Communications Infrastructure" to provide better visibility and management of similar programs. Therefore, FY96 and FY97 funding for the ANG and CE (appropriated in P-1 Line # 61) is now displayed in P-1 Line # 77 in order to provide complete funding profiles.

Base Closure plans are incorporated into the BII program. In the event a location is identified for closure, partial closure or under study for closure, the Air Force will cease all actions pending a final determination of a location's status and, in turn, apply available funding to existing operational requirements.

1. **VOICE SWITCHING SYSTEM (VSS):** Formerly called Digital Switching System. VSS competitively acquires new digital switching equipment, e.g., dial central offices, information transport nodes, remote switching centers, private branch exchanges, etc., where the existing switch is no longer capable of meeting mission requirements. Funds will provide standard interfaces and increased capacity, e.g., Asynchronous Transfer Mode, to meet current and future mission requirements by improving interbase/intrabase connectivity in order to provide wing war fighters the capability to "pull" information worldwide to rapidly mobilize and deploy forces as needed. FY96-99 funds continue switching systems procurements at multiple Air Force bases.

2. **INFORMATION TRANSPORT SYSTEMS (ITS):** Formerly called Distribution System/Premise Equipment (DS/PE). ITS will install a common user high speed, broad bandwidth, digital fiber optic network at each Air Force base to provide an information utility to support the users' requirement for near-instantaneous information transfer during crisis, contingency, and peacetime operations. The Air Force Chief of Staff labeled "information operations" the fifth dimension of

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT								FEBRUARY 1997	
P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

warfare. ITS provides the capability to rapidly disseminate needed information to coordinate current and future warfighting missions thereby ensuring "information dominance". ITS will be of sufficient capacity and flexibility to support all network needs: data, voice, video, imagery, and telemetry. It will enable combat and combat support information systems to interoperate and interconnect on Air Force bases, from the human interface (e.g., desktop computers) to the off-base long haul demarcation point. FY96-99 funds continue ITS procurement at multiple Air Force bases.

3. **TELECOMMUNICATIONS MANAGEMENT SYSTEM (TMS):** TMS is an automated management system that provides various services including collecting and archiving information on cable records, service orders, and usage/billing; directory and operator assistance including the creation and update of base telephone books; and the inventory control of logistics support items. TMS enables the more efficient management of digital switching systems and information transport systems to improve maintenance and operational performance of mission-critical assets. FY97-99 funds procure and install TMS at listed Air Force bases.

4. **NETWORK MANAGEMENT SYSTEM (NMS):** FY97-99 funds procure network management systems for each listed Air Force base to provide proactive and reactive management of all command, control, communications, computer and intelligence (C4I) systems on base by monitoring and controlling the base network and distributed software resources. The NMS is the nerve center or brain of the entire base information infrastructure. The integrated network management tools will test and troubleshoot equipment, provide fault isolation, monitor performance, provide configuration management, account for equipment, and ensure security management of base systems from the user's desktop to the off-base long-haul demarcation point. The NMS will have the capability to provide bandwidth on demand which is essential to support the warfighter's need for information to effectively prosecute a war.

5. **BASE INFORMATION PROTECT (BIP):** Funds procure commercial-off-the-shelf (COTS) information protection tools for each Air Force base to detect, deter, isolate, contain, reconstitute and recover from information systems and network security intrusions and attacks. Funds will procure network intrusion detection systems, firewalls to close the network to unauthorized users, and guards to ensure information integrity, security, and confidentiality are maintained while passing information across networks. BIP implements the base level information protect portion of the Defensive Counter-Information mission area and is critical to prosecuting the information war. FY96 provides funding for proof-of-concept and engineering integration activities at Langley Air Force Base, Virginia. FY97-99 funds procure and install BIP at listed Air Force bases.

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

[illegible]

UNCLASSIFIED



## UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY BASE)			C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A									
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
20 March AFB, CA (AFR)														305
21 Cheyenne Mtn CO														305
22 Altus AFB, OK														
23 Hill AFB, UT														
24 Barksdale AFB, LA														5,908
25 McChord AFB, WA														5,220
26 F.E. Warren AFB, WY														3,998
27 Misawa AB, JA														6,858
28 RAF Lakenheath UK														
29 Pope AFB, SC														4,494
30 Scott AFB, IL														3,528
31 Tinker AFB, OK														7,494
32 Peterson AFB, CO														
33 Laughlin AFB, TX														
34 Dyess AFB, TX														
35 Grissom AFB, IN (AFR)														3,627
36 Dobbins AFB, GA (AFR)														4,603
37 Fairchild AFB, WA														
38 Beale AFB, CA														
39 RAF Mildenhall UK														
40 Whiteman AFB, MO														
			P-1 SHOPP LIST ITEM NO. 61			PAGE NO. 134			Exhibit P-5 Weapon System Cost Analysis					

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY BASE)			C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A							
Weapon System Cost Elements		IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999		TOTAL COST	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST		
41 Kunsan AB, KO											1,720	
42 Robins AFB, GA											1,720	
43 Elmendorf AFB, AK											1,030	
44 Malmstrom AFB, MT											1,290	
45 Falcon AFB, CO											1,290	
46 Ellsworth AFB, SD											1,290	
47 Spangdahlem GE						1,845					1,290	
48 Columbus AFB, MS											1,030	
49 Tyndall AFB, FL											1,030	
50 Grand Forks AFB, SD						1,290					305	
51 Niagara Falls, NY (AFR)											1,030	
52 Minn-St Paul, MN (AFR)											1,030	
53 Eielson AFB, AK											1,030	
54 McConnell AFB, KS											1,030	
55 Moody AFB, GA											1,030	
56 RAF Molesworth UK											1,720	
57 Kirtland AFB, NM											1,720	
58 Nellis AFB, NV											1,720	
59 Keesler AFB, MS											1,720	
60 Sheppard AFB, TX											1,720	
61 Patrick AFB, FL											1,290	
			P-1 SHOPP LIST ITEM NO. 61		PAGE NO. 135		Exhibit P-5 Weapon System Cost Analysis					

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY BASE)			C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A									
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999			
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
62 Cape Canaveral AS, FL														1,290
63 Willow Grove NAS, PA (AFR)														1,030
64 General Mitchell Field, WI (AFR)														1,030
65 RAF Croughton UK														1,030
66 Cannon AFB, NM														1,595
67 Davis-Monthan AFB, AZ														1,595
68 Hickam AFB, HI														1,700
69 Luke AFB, AZ														1,595
70 Yokota AB, JA														1,700
71 Shaw AFB, SC														1,595
72 Offutt AFB, NE														2,110
73 Edwards AFB, CA														2,110
74 USAF Academy CO														305
75 RAF Uxbridge UK														325
76 Regional Distribution System (RDS) Contract Services				1,470			1,760				1,560			1,610
TOTAL				27,523			82,333				88,945			102,126
		P-1 SHOPP LIST ITEM NO. 61		PAGE NO. 136		Exhibit P-5 Weapon System Cost Analysis								

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/POPULAR NAME BASE INFORMATION INFRASTRUCTURE (COST BY SYSTEM)			C. MANUFACTURER NAME/PLANT/CITY/STATE See Manufacturing Information on P-5A								
Weapon System Cost Elements			FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
Combat Information Transport System (CITS)					27,523			82,333			88,945			102,126
VOICE SWITCHING SYSTEM (VSS):					3,830			8,558			4,500			12,876
INFORMATION TRANSPORT SYSTEMS (ITS)					22,763			46,305			41,630			43,875
TELECOMMUNICATIONS MANAGEMENT SYSTEMS (TMS)					0			4,640			9,035			5,405
NETWORK MANAGEMENT SYSTEM (NMS):					0			11,050			16,250			19,500
BASE INFORMATION PROTECT (BIP):					930			11,780			17,530			20,470
			P-1 SHOPP LIST ITEM NO. 61			PAGE NO. 137			Exhibit P-5 Weapon System Cost Analysis					

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

## COMBAT INFO TRANSPORT SYS

## 1. LANGLEY AFB, VA

FY96 VSS

FY96 ITS

FY96 BIP

FY97 NMS

## 2. CHARLESTON AFB, SC

FY96 ITS

FY96 VSS

FY97 NMS

FY97 BIP

FY98 TMS

ARMY/ GTE GOVT SYS,  
NEEDHAM, MAGTE SERVICES  
FREDERICK, MD

EDS CORP, HERNDON, VA

EDS CORP, HERNDON, VA

GSA FEDSIM  
WASH DCARMY / GTE GOVT SYS,  
NEEDHAM, MA

EDS CORP, HERNDON, VA

EDS CORP, HERNDON, VA

ANSTEC INC, FAIRFAX, VA

MIPR/OPT/FFP 3

DO/FFP 2

DO/FFP

DO/FFP

OPT/FFP 4

MIPR/OPT/FFP 3

DO/FFP

DO/FFP

DO/FFP

AFMC/ESC

AFMC/ESC

AFMC/ESC

AFMC/ESC

AFMC/ESC

AFMC/ESC

AFMC/ESC

AFMC/ESC

AFMC/ESC

MAR 97

DEC 95

AUG 96

OCT 96

MAR 96

APR 96

FEB 97

FEB 97

NOV 96

SEP 97

JUL 97

APR 97

APR 97

MAY 97

JUN 97

NOV 97

NOV 97

JUL 97

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

N/A

716

6,651

930

650

3,091

2,665

650

1,070

390

YES

NO

NO

NO

NO

NO

NO

NO

NO

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

3. MT HOME AFB, ID FY96 ITS	GTE SERVICES FREDERICK, MD	DO/FFP <sup>2</sup>	AFMC/ESC	FEB 96	AUG 96	N/A	1,382								
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 97	SEP 97	N/A	650	YES	NO						
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 97	SEP97	N/A	380	YES	NO						
4. INCIRLIK AB, TURKEY FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO						
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	380	YES	NO						
5. KADENA AB, JAPAN FY96 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	Wp <sup>6</sup>	AFMC/ESC	JAN 96	MAY 96	N/A	4,223								
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	SEP 97	N/A	410								
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO						
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO						
6. HURLBURT AFB, FL FY96 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	SEP 96	JAN 97	N/A	450								

### D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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# UNCLASSIFIED

## UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY96 ITS	GTE SERVICES FREDERICK, MD	DO/FFP 2	AFMC/ESC	DEC 96	JAN 97	N/A	5,947				
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO		
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	640	YES	NO		
7. TRAVIS AFB, CA FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUN 97	N/A	4,128	YES	NO		
FY97 ITS	GTE SERVICES FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	JAN 97	DEC 98	N/A	7,122				
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO		
FY97BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO		
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	390	YES	NO		
8. EGLIN AFB, FL FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUL 97	N/A	503	YES	NO		
FY97 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	FEB 97	SEP 98	N/A	7,193	YES	NO		

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	YES	NO		650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	YES	NO		1,070	YES	NO	
FY97 TMS	ANSTEC INC FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	AUG 97	N/A				390			
9. WESTOVER AFB, MA FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUL 97	N/A	YES	NO		302	YES	NO	
FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB OK	WP <sup>6</sup>	AFMC/ESC	FEB 97	JUN 97	N/A	YES	NO		1,769	YES	NO	
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	YES	NO		650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	YES	NO		380	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	YES	NO		305	YES	NO	
10. VANDENBERG AFB, CA FY97 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 96	JUL 97	N/A				2,966			
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 97	JAN 98	N/A	YES	NO		390	YES	NO	

D. REMARKS				P-1 SHOPP LIST				PAGE NO.				Exhibit P-5a Procurement History and Planning	
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.				ITEM NO.				141					
				61									

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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
11. RANDOLPH AFB, TX FY 97 VSS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO		
	GTE FREDERICK MD	DO/FFP 5	AFMC/ESC	NOV 98	VAR <sup>1</sup>	N/A	4,986	YES	NO		
	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	APR 97	JUL 97	N/A	604	YES	NO		
	38 ENGINEERING INSTALLATION WING TINKER AFB OK	WP <sup>6</sup>	AFMC/ESC	NOV 96	SEP 97	N/A	1,937				
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	AUG 97	N/A	305				
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO		
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	1,070	YES	NO		
12. SEYMOUR-JOHNSON AFB, NC FY97 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	JAN 97	MAR 98	N/A	3,020				
	GTE SERVICES FREDERICK, MD	OPT/FFP 5	AFMC/ESC	FEB 97	OCT 98	N/A	6,232	YES	NO		
FY97 ITS											
D. REMARKS											
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.											
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## D. REMARKS

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUN 97	NOV 97	N/A	650	YES	NO		
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUN 97	NOV 97	N/A	640	YES	NO		
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO		
13. McGuire AFB, NJ FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP <sup>6</sup>	AFMC/ESC	NOV 96	SEP 97	N/A	2,308				
	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	390	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	1,070	YES	NO		
14. AVIANO AB, ITALY FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP <sup>6</sup>	AFMC/ESC	JAN 97	SEP 97	N/A	3,048				
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	380	YES	NO		
	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	185	YES	NO		

D. REMARKS				Exhibit P-5a Procurement History and Planning			
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.							
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	AUG 99	N/A	325	YES	NO	
15. HOLLOWMAN AFB, NM FY97 ITS	GTE FREDERICK MD	DO/FFP <sup>5</sup>	AFMC/ESC	FEB 97	OCT 98	N/A	5,036	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	640	YES	NO	
FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAY 99	N/A	4,425	YES	NO	
16. OSAN AB, KOREA FY 97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	DEC 96	SEP 97	N/A	410			
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	640	YES	NO	
FY98 ITS	GTE FREDERICK MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	9,662	YES	NO	
17. ANDREWS AFB, MD FY98 ITS	GTE FREDERICK MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	MAY 98	N/A	6,452	YES	NO	
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO	

## D. REMARKS

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

18. RAMSTEIN AB, GERMANY	FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	YES	NO				
	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	YES	NO				
	FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	YES	NO				
	FY98 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	YES	NO				
19. HOMESTEAD AFB, FL	FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	YES	NO				
	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	YES	NO				
	FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	SEP 99	N/A	YES	NO				
	FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	YES	NO				
	FY98 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	YES	NO				
	FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	YES	NO				
	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	YES	NO				

D. REMARKS		
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.		
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	JUL 99	N/A	305	YES	NO	
20. MARCH AFB, CA										
FY97 TMS	ANSTEC INC FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 97	JAN 98	N/A	305	YES	NO	
FY98 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR 1	N/A	1,984	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	1,070	YES	NO	
21. CHEYENNE MTN COMPLEX, CO										
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR 1	N/A	2,088	YES	NO	
FY 98 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR 1	N/A	2,694	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	640	YES	NO	
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	305	YES	NO	

### D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

22. ALTUS AFB, OK FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	327	YES	NO							
FY98 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	3,741	YES	NO							
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO							
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	380	YES	NO							
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	JUL 99	N/A	305	YES	NO							
23. HILL AFB, UT FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	390	YES	NO							
FY98 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	7,494	YES	NO							
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO							
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	1,070	YES	NO							
24. BARKSDALE AFB, LA FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	JAN 97	JAN 98	N/A	390									
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO							

D. REMARKS		NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.		DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.		P-1 SHOPP LIST ITEM NO.		PAGE NO.		Exhibit P-5a Procurement History and Planning	
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	1,070	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 98	MAR 99	N/A	5,908	YES	NO	
25. McCHORD AFB, WA FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 97	FEB 98	N/A	640	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	JAN 99	MAR 99	N/A	5,220	YES	NO	
26. F.E. WARREN AFB, WY FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 97	JAN 98	N/A	390	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	380	YES	NO	
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 98	VAR <sup>1</sup>	N/A	3,998	YES	NO	
27. MISAWA AB, JA FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	JUN 97	APR 98	N/A	325	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO	

## D. REMARKS

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	640	YES	NO		
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 98	VAR <sup>1</sup>	N/A	6,858	YES	NO		
28. RAF LAKENHEATH UK FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP <sup>6</sup>	AFMC/ESC	NOV 96	AUG 97	N/A	2,529				
FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	JUN 97	APR 98	N/A	325	YES	NO		
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	640	YES	NO		
29. POPE AFB, NC FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	MAR 97	DEC 97	N/A	305	YES	NO		
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	650	YES	NO		
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	640	YES	NO		
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 98	VAR <sup>1</sup>	N/A	4,492	YES	NO		

  

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
37. SCOTT AFB, IL FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	1,070	YES	NO		
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 98	FEB 99	N/A	3,528	YES	NO		
31. TINKER AFB, OK FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	1,070	YES	NO		
FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAR 99	N/A	221	YES	NO		
FY99 ITS	GTE FREDERICK, MD	DO/FFP <sup>5</sup>	AFMC/ESC	NOV 98	FEB 99	N/A	7,273	YES	NO		
32. PETERSON AFB, CO FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	OCT 97	JUL 99	N/A	390	YES	NO		
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	640	YES	NO		
33. LAUGHLIN AFB, TX FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO		

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

34. DYESS AFB, TX	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	380	YES	NO						
	FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAR 99	N/A	3,627	YES	NO						
	FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO						
	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	640	YES	NO						
	FY99 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 98	MAR 99	N/A	4,603	YES	NO						
35. GRISSOM AFB, IN	FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	650	YES	NO						
	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 98	JUL 98	N/A	380	YES	NO						
	FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO						
	FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO						
36. DOBBINS AFB, GA	FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	380	YES	NO						
	FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO						

### D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
37. FAIRCHILD AFB, WA FY97 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 97	NOV 97	N/A	305	YES	NO		
FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	650	YES	NO		
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	640	YES	NO		
38. BEALE AFB, CA FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	380	YES	NO		
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 97	JUL 98	N/A	305	YES	NO		
39. RAF MILDENHALL, UK FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP <sup>6</sup>	AFMC/ESC	NOV 96	AUG 97	N/A	2,562				
FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	DEC 98	N/A	325	YES	NO		
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	380	YES	NO		
40. WHITEMAN AFB, MO FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO		
D. REMARKS NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.											
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## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	1,070	YES	NO	
41. KUNSAN AB, KO FY 98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	DEC 98	N/A	325	YES	NO	
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	650	YES	NO	
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 98	OCT 98	N/A	1,070	YES	NO	
42. ROBINS AFB, GA FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	1,070	YES	NO	
43. ELMENDORF AFB, AK FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	DEC 98	N/A	325	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	1,070	YES	NO	
44. MALMSTROM AFB, MT FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO	

D. REMARKS				P-1 SHOPP LIST				PAGE NO.		Exhibit P-5a Procurement History and Planning	
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.				ITEM NO.		61		153			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	380	YES	NO		
45. FALCON AFB, CO FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	640	YES	NO		
46. ELLSWORTH AFB, SD FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	640	YES	NO		
47. SPANGDAHLEH GE FY97 ITS	38 ENGINEERING & INSTALLATION WING TINKER AFB, OK	WP <sup>6</sup>	AFMC/ESC	JAN 97	AUG 97	N/A	1,845				
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	640	YES	NO		
48. COLUMBUS AFB, MS FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	NOV 98	FEB 99	N/A	380	YES	NO		

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
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B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

49. TYNDALL AFB, FL FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
50. GRAND FORKS AFB, ND FY97 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	650	YES	NO	
FY97 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JUL 97	FEB 98	N/A	640	YES	NO	
FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	VAR <sup>1</sup>	N/A	327	YES	NO	
FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	NOV 98	JUL 99	N/A	305	YES	NO	
51. NIAGARA FALLS FIELD, NY FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO	
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	380	YES	NO	
52. MINN-ST PAUL FIELD, MN FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	650	YES	NO	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	APR 99	N/A	380	YES	NO	

D. REMARKS										Exhibit P-5a Procurement History and Planning	
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
53. EIELSON AFB, AK FY 98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 99	N/A	325	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	380	YES	NO		
54. McCONNELL AFB, KS FY98 VSS	NORTEL MCLEAN, VA	DO/FFP	AFMC/ESC	NOV 97	JAN 98	N/A	281	YES	NO		
FY98 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	650	YES	NO		
FY98 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 98	APR 98	N/A	380	YES	NO		
55. MOODY AFB, GA FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 98	NOV 98	N/A	305	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	380	YES	NO		
56. RAF MOLESWORTH, UK FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMCE/ESC	APR 98	APR 99	N/A	325	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO		

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	380	YES	NO		
57. KIRTLAND AFB, NM FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMCE/ESC	APR 98	APR 99	N/A	390	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	1,070	YES	NO		
58. NELLIS AFB, NV FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	JAN 99	MAR 99	N/A	1,070	YES	NO		
59. KEESLER AFB, MS FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	390	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	1,070	YES	NO		
60. SHEPPARD AFB, TX FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMCE/ESC	APR 98	MAR 99	N/A	390	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	1,070	YES	NO		

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D. REMARKS		P-1 SHOPP LIST ITEM NO. 61		PAGE NO. 157
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.				
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
61. PATRICK AFB, FL FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	305	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	640	YES	NO		
62. CAPE CANAVERAL AS, FL FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	390	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	640	YES	NO		
63. WILLOW GROVE NAS, PA FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	380	YES	NO		
64. GENERAL MITCHELL FIELD, WI FY98 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	305	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	380	YES	NO		

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
65. RAF CROUGHTON UK FY98 TMS  FY99 NMS  FY99 BIP	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 98	MAR 99	N/A	325	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	APR 99	JUL 99	N/A	380	YES	NO		
66. CANNON AFB, NM FY99 TMS  FY99 NMS  FY99 BIP	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO		
67. DAVIS-MONTHAN AFB, AZ FY99 TMS  FY99 NMS  FY99 BIP	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO		
68. HICKAM AFB, HI FY99 TMS  FY99 NMS  FY99 BIP	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	410	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		
	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO		

D. REMARKS				Exhibit P-5a Procurement History and Planning			
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.							
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE INFORMATION INFRASTRUCTURE (BII)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	REV REQ'D	IF YES, WHEN AVAIL	
69. LUKE AFB, AZ FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO		
70. YOKOTA AFB, JA FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	DEC 99	N/A	410	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO		
71. SHAW AFB, SC FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	FEB 99	NOV 99	N/A	305	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	640	YES	NO		
72. OFFUTT AFB, NE FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	APR 00	N/A	390	YES	NO		
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO		

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE INFORMATION INFRASTRUCTURE (BII)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	1,070	YES	NO				
73. EDWARDS AFB, CA FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	APR 00	N/A	390	YES	NO				
FY99 NMS	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	650	YES	NO				
FY99 BIP	EDS CORP, HERNDON, VA	DO/FFP	AFMC/ESC	MAY 99	OCT 99	N/A	1,070	YES	NO				
74. USAF ACADEMY CO FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	MAR 00	N/A	305	YES	NO				
75. RAF UXBRIDGE, UK FY99 TMS	ANSTEC INC, FAIRFAX, VA	DO/FFP	AFMC/ESC	APR 99	MAR 00	N/A	325	YES	NO				
REGIONAL DISTRIBUTION SYSTEM CONTRACT SERVICES FY96	GTE SERVICES FREDERICK, MD	DO/FFP <sup>2</sup>	AFMC/ESC	NOV 95	DEC 95	N/A	1,470	YES	NO				
FY97	GTE SERVICES FREDERICK, MD	DO/FFP <sup>2</sup>	AFMC/ESC	NOV 96	DEC 96	N/A	1,760	YES	NO				
FY 98	GTE SERVICES FREDERICK, MD	DO/FFP <sup>2</sup>	AFMC/ESC	NOV 97	DEC 97	N/A	1,560	YES	NO				

### D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		BASE INFORMATION INFRASTRUCTURE (BII)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY99	GTE SERVICES FREDERICK, MD	DO/FFP <sup>2</sup>	AFMC/ESC	NOV 98	DEC 98	N/A	1,610	YES	NO	

D. REMARKS		
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.		
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			BASE INFORMATION INFRASTRUCTURE (BII)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## REMARKS (FOOTNOTES):

1. Delivery dates range 12-24 months after order is placed.
2. HQ Air Force Materiel Command/Electronics Systems Center (AFMC/ESC) awarded a competitive regional requirements contract in Apr 95 to GTE Services, Frederick, MD. Award date column reflects site order placement.
3. Option to FY91 Army contract awarded to GTE Government Systems, Needham, MA
4. Option off GSA schedule.
5. The BII program office at ESC, Hanscom AFB, MA, will make use of various contracts and contract types to award FY97 funds, e.g., the five-year regional requirements contract awarded to GTE Services, Frederick, MD in Apr 95; FEDSIM, Washington (GSA schedule), and use of Air Force 38 Engineering & Installation Wing, Tinker AFB, OK capability.
6. Multiple types of equipment will be procured off various existing contracts. Above award and delivery dates represents date of first award and delivery. Installation using Air Force 38 Engineering & Installation Wing, Tinker AFB, OK resources.

D. REMARKS		
NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO PROCURE AND INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.		
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**BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)**

DATE FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			USCENTCOM					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY2002	FY 2003
QUANTITY								
COST (In Mil)	3.130	3.474	4.031	4.581	6.043	6.178	6.283	6.330

The Air Force is the executive agent for US Central Command (USCENTCOM) Headquarters. USCENTCOM and its area of responsibility (AOR) are separated by over 7,000 miles. Command, control, communications and computer (C4) systems must be able to effectively control contingency or peacetime operations while deployed or in garrison. The US Commander-in-Chief, Central Command (CINCCENT), warfighting Command Automation System provides the necessary automated systems for command and control of all assigned forces. USCENTCOM uses the Joint Staff's Modern Aids to Planning Program (MAPP) by running automated courses of action studies and wargaming simulations to validate operational planning actions. Requirements for the Joint Communications Support Element (JCSE) are also included to replace and modernize its equipment to continue effective support of Joint Chiefs of Staff (JCS) directed operations.

1. **USCENTCOM COMMAND AND CONTROL SYSTEMS:** This program procures essential CINCCENT command and control systems in support of deployed forces as well as garrison-based contingency and peacetime operations. FY96/97 funding provides for procurement of communications and automation systems which includes integration and implementation of the Global Command and Control System (GCCS) and a portion of a commercial SATCOM terminal upgrade as part of the Defense Information Systems Agency (DISA) Commercial SATCOM Initiative (CSCI), and the upgrade and modernization of the Modern Aids to Planning Program (MAPP). FY98/99 funding finishes the CSCI SATCOM terminal procurement, funds an Asynchronous Transfer Mode (ATM) network for CINCCENT headquarters, and procures Demand Assigned Multiple Access (DAMA) equipment.

**2. JOINT COMMUNICATIONS SUPPORT ELEMENT (JCSE):** FY96/97/98/99 funds provide the Air Force's one-third share to procure command, control and communications (C3) equipment in support of deployed Joint Task Force Headquarters and deployed Special Operations Command Headquarters. This funding is equally shared with the Army and Navy. JCSE is the only joint DoD unit specifically formed to provide C3 support for JCS contingency operations worldwide. Equipment requirements are approved annually by the JCS and assigned to the respective services for procurement through the Executive Acquisition Agent (Air Force).

### 3. ANGI/AFR

		ANG				AFR	
	QTY		DOLLARS	QTY			DOLLARS
FY96			.267				0.000
FY97			1.934				0.000
FY98			.200				0.000
FY99			.200				0.000

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													D. DATE		FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME  USCENTCOM			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A										
Weapon System Cost Elements			IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999			
				QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

1. USCENTCOM COMMAND & CONTROL SYS		VAR	N/A	(950)	VAR	N/A	(1,008)	VAR	N/A	(1,288)	VAR	N/A	(1,380)
A. COMMUNICATIONS & AUTOMATION SYSTEMS	A			570			700			1,000			1,000
B. MODERN AIDS TO PLANNING PROGRAM (MAPP)	A			380			308			288			380
2. JOINT COMM SUPPORT ELEMENT (JCSE)	A	VAR	N/A	2,180 *	VAR	N/A	2,466 *	VAR	N/A	2,743 *	VAR	N/A	3,201 *
TOTAL				3,130			3,474			4,031			4,581

\* Represents the Air Force's 1/3 Share Of Tri-Service Funding

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**BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)**

**A. DATE**  
**FEBRUARY 1997**

[illegible][illegible]

**D. REMARKS:**

1. MULTIPLE CONTRACT AWARDS FOR SMALL ACQUISITIONS WITH VARIOUS CONTRACTORS, CONTRACTING AGENCIES, AWARD AND DELIVERY DATES, QUANTITIES AND UNIT COSTS. SOME CONTRACTOR EXAMPLES ARE: DIGITAL EQUIPMENT CORP. TAMPA, FL; AT&T, NORCROSS, GA; GTE, NEEDHAM HEIGHTS, MA; PARAMAX CORP., PAOLI, PA; ROCKWELL INTERNATIONAL, EL PASO, TX; BENDIX CORP. LEXINGTON PARK, MD; AND HARRIS CORP. MELBOURNE, FL.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				AUTOMATED TELECOMMUNICATIONS PROGRAM							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	17.805	19.173	15.900	17.795	17.659	17.972	11.905	20.970			

This program continues acquisition of equipment in support of Air Force requirements for the Defense Message System (DMS). This system provides essential capabilities to carry on the wartime and peacetime missions of the Air Force.

**DEFENSE MESSAGE SYSTEM (DMS)-AIR FORCE (AF):** DMS-AF is the Air Force portion of a DoD initiative to replace today's message communications system which supports command and control, intelligence, logistics and sustaining forces. The baseline for DMS is the Automatic Digital Network (AUTODIN) and electronic mail (E-Mail) on the DoD Internet. The goal is to move message service off the AUTODIN onto a secure, fully mature, writer-to-reader E-Mail system which will ultimately allow closure of Telecommunications Centers (TCCs) and will reduce maintenance and manpower costs. Four hundred seventy manpower slots (FY94-97) have been eliminated from Air Force TCCs in recognition of cost savings. In addition, 360 TCC manpower slots were taken (FY96-01) for reinvestment in DMS and Defense Information Infrastructure. Because of these manpower reductions, the Air Force must posture itself for closing TCCs and the shutdown of the AUTODIN. FY95 funds were applied to the DMS-GOSIP message contract to provide implementation services in preparation to providing writer-to-reader message service to initial bases. FY96 funds provided writer-to-reader message service to an initial 24,200 users of the 329,000 projected users and purchased connectivity at ten bases. This began a phased effort that allows the Air Force to effectively close TCCs which, in turn, facilitates the closing of the AUTODIN by the year 2000. FY97 funds provide writer-to-reader service for another 44,000 users and network connectivity at 11 bases. FY98 funding will continue message service for 29,000 users and additionally will provide enhanced security capabilities at 25 bases. FY99 funds will continue to provide writer-to-reader message to another 23,000 users and provide enhanced security capabilities at 68 bases.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME  AUTOMATED TELECOMMUNICATIONS PROGRAM				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1996		FY 1997		FY 1998		FY 1999				
Weapon System Cost Elements	IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		

DMS-AF													
DMS - GOSIP	A	24,200 <sup>2</sup>	N/A <sup>3</sup>	10,000	44,000 <sup>2</sup>	N/A <sup>3</sup>	16,423	29,000 <sup>2</sup>	N/A <sup>3</sup>	11,186	23,000 <sup>2</sup>	N/A <sup>3</sup>	4,943
DMS - CONNECTIVITY	A	10 <sup>5</sup>	N/A <sup>5</sup>	7,805	11 <sup>5</sup>	N/A <sup>5</sup>	2,750						
DMS - ENHANCED SECURITY CAPABILITY	A							25 <sup>5</sup>	N/A <sup>5</sup>	4,714	68 <sup>5</sup>	N/A <sup>5</sup>	12,852
TOTAL				17,805			19,173			15,900			17,795

See Footnote explanations  
on P-5A budget format.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				AUTOMATED TELECOMMUNICATIONS PROGRAM							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

DMS - AF DMS GOSIP	FY96	LOCKHEED-MARTIN FED SYS (LMFS)	OPT/FFP 1	AFMC/ESC-SSG	DEC 95	JUL 96	24,200 2	N/A 3					
	FY97	LMFS	OPT/FFP 1	AFMC/ESC-SSG	OCT 96	JAN 97	44,000 2	N/A 3					
	FY98	LMFS	OPT/FFP 1	AFMC/ESC-SSG	OCT 97	JAN 98	29,000 2	N/A 3	YES	NO			
	FY99	LMFS MANASSAS, VA	OPT/FFP 1	AFMC/ESC-SSG	OCT 98	JAN 99	23,000 2	N/A 3	YES	NO			
DMS CONNECTIVITY	FY96	DISA/COMM NETWORK SYSTEMS	MIPR/OPT 4	AFMC/ESC-SSG	DEC 95	APR 96	10 5	N/A 5					
	FY97	DISA/COMM NETWORK SYSTEMS INGLEWOOD, CO	MIPR/OPT 4	AFMC/ESC-SSG	OCT 96	FEB 97	11 5	N/A 5					
DMS - ENH SECURITY CAPABILITY	FY98	LMFS	OPT/FFP 1	AFMC/ESC-SSG	OCT 97	JAN 98	25 5	N/A 5	YES	NO			
	FY99	LMFS MANASSAS, VA	OPT/FFP 1	AFMC/ESC-SSG	OCT 98	JAN 99	68 5	N/A 5	YES	NO			

### D. REMARKS

1. OPTION TO FY95 COMPETITIVE CONTRACT AWARDED TO LOCKHEED-MARTIN FEDERAL SYSTEMS IN MAY 1995.
2. NUMBER OF USERS PROVIDED DMS CAPABILITY.
3. UNIT COSTS ARE DEPENDENT ON INDIVIDUAL SITE CONFIGURATIONS.
4. OPTION TO DISA FIRM FIXED PRICE CONTRACT DCA200-94-G-0008 AWARDED JULY 94 TO COMMUNICATIONS NETWORK SYSTEMS CORP.
5. NUMBER OF BASES BEING UPGRADED. UNIT COSTS VARY. AMOUNT OF NETWORK CONNECTIVITY AND SECRET LEVEL CAPABILITY BEING INSTALLED VARIES WITH THE SIZE OF EACH BASE.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			NAVSTAR GPS						
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)	5.012	3.308	3.129	4.087	3.985	4.028	4.400	4.485	

The Navstar Global Positioning System (GPS) satisfies validated joint service requirements for worldwide, accurate, common grid, three-dimensional positioning/navigation for military aircraft, ships, ground vehicles and ground personnel. The consistent accuracy, unaffected by location or weather, together with real time availability, will significantly improve effectiveness of reconnaissance, weapons delivery, mine countermeasures and rapid deployment for all services. The system is composed of three segments: (1) user equipment (UE), (2) satellites and (3) a control network. Air Force UE consists of 5-channel handheld sets (funded in Other Procurement Appropriation) and 5-channel airborne sets (funded in Aircraft Procurement Appropriation). The satellites broadcast high accuracy data using precisely synchronized signals that are received and processed by UE installed in military platforms. The UE computes the platform position and velocity and provides steering vectors to target locations or navigational waypoints. This UE was a key component in Desert Shield/Storm to provide precise positioning in the featureless desert. The control network daily updates the navigation messages broadcast from the satellites to maintain probable system precision in three dimensions to 16 meters worldwide.

**PRECISION LIGHTWEIGHT GPS RECEIVER (PLGR):** The PLGR is a lightweight, handheld GPS set that receives satellite signals and processes the data into precise position and velocity information for low dynamic motion users. It is a non-developmental item which is being used primarily to support Air Liaison Officers (ALOs), Forward Air Controllers (FACs), Explosive Ordnance Disposal Teams, Security Police and Combat Control Teams (CCTs) by supplying precise position information on a universal grid reference system and time synchronization for anti-jam communications systems. FY93 funding began the large scale precision lightweight GPS receiver (PLGR) procurement including unique support equipment, production unit testing, and contractor technical support.

FY96 funds procured an Interim GPS capability comprised of multiple types of hand held receiver sets for an interim carry-on GPS capability on Air Force passenger carrying aircraft (reference DoD Reprogramming 96-15PA approved by Congress in August 1996). FY96 funding also provides for program support.

FY97 funding continues funding for program support, PLGR procurement and support costs associated with qualification operational test & evaluation (QOT&E) required by the DoD Multi-Service Test and Evaluation Plan. Procurement costs include funding for various PLGR accessory items, e.g., helmet-mounted and remote antennae; vehicle installation mounts; alternating current (AC) power adapters; and cables allowing the PLGR to be connected to other PLGRs. Delivery of accessory items is tailored to individual users based on their specific mission requirements. Total Air Force PLGR requirement is 7846 units; the inventory objective will be bought out in FY97. Additionally, FY97 funding will provide program support and technology sample testing of the next generation PLGR known as the Defense Advanced GPS Receiver (DAGR). The DAGR will be smaller, lighter, more accurate, more energy efficient and more secure than the PLGR.

FY98 funds the first DAGR production buy of 689 units and FY99 funds 1,251 units.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>								<b>DATE</b>	
<b>APPROPRIATION/BUDGET ACTIVITY</b>									
<b>OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT</b>									
<b>P-1 ITEM NOMENCLATURE</b>								<b>NAVSTAR GPS</b>	
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY									
COST (In Mil)									

**ANG/AFR:**

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	248		.298	290		.348
FY97	53		.064	62		.075
FY98	41		.121	55		.162
FY99	75		.221	87		.258

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME  NAVSTAR GPS			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A			D. DATE FEBRUARY 1997				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT													
Weapon System Cost Elements			FY 1996			FY 1997			FY 1998			FY 1999	
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

PLGR/DAGR	A	VAR	N/A	(5,012)	VAR	N/A	(3,308)	VAR	N/A	(3,129)	VAR	N/A	(4,087)
PLGR/VEHICLE INSTALLATION SETS					900	1.2	1,080						
PLGR SUPPORT COSTS							65						
INTERIM GPS				4,975						690			
TECH SAMPLE TESTING							1,216						
SENSOR-TO-SHOOTER							926						
DAGR/VEHICLE INSTALLATION SETS								689	2.95	2,033	1,251	2.95	3,690
PROGRAM SUPPORT				37		21				406			397
TOTAL				5,012			3,308			3,129			4,087

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

## B. APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## C. P-1 ITEM NOMENCLATURE

## NAVSTAR GPS

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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## GPS USER EQUIPMENT

## PLGR

FY97

ROCKWELL COLLINS  
CEDAR RAPIDS, IA

OPT/FFP 1

AFMC/SMC

JAN 97

JUL 97

900

1.2 2

YES

NO

## INTERIM GPS

FY96

ALLIED SIGNAL  
KANSAS CITY, MO

C/FP

AFMC/SMC

SEP 96

SEP 96

N/A

VAR 3

## TECH SAMPLE TESTING

FY97

ARMY/ELECTRONIC  
PROVING GROUND  
FT. HUACHUCA, AZMIPR  
C/FP

AFMC/SMC

MAR 97

JUL 97

VAR

N/A

NO

YES

SEP 97

FY98

ARMY/ELECTRONIC  
PROVING GROUND  
FT. HUACHUCA, AZMIPR  
C/FP

AFMC/SMC

MAR 97

JUL 98

VAR

N/A

NO

YES

SEP 97

## DAGR

FY98

TBD

C/FP

AFMC/SMC

DEC 97

JUN 98

689

2.95 4

NO

YES

SEP 97

FY99

TBD

OPT/FP

AFMC/SMC

DEC 98

JUN 99

1,251

2.95 4

NO

YES

SEP 97

## D. REMARKS

1. OPTION TO FY98 COMPETITIVE FIRM FIXED PRICE CONTRACT TO ROCKWELL COLLINS.
2. FY97 UNIT COST IS THE AVERAGE AIR FORCE AND ARMY COST OF THE BASIC PLGR AND ITS COMPONENTS.
3. INTERIM GPS CONSISTS OF COMMERCIAL GPS RECEIVERS, AIRCRAFT INSTALLATION EQUIPMENT, MANUALS, AND TRAINING MATERIALS. VARIOUS COMPONENTS CAUSE UNIT COST TO VARY.
4. THE FY98/99 UNIT COST IS THE AVERAGE ESTIMATED COST OF THE BASIC DAGR AND ITS COMPONENTS.

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BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)

DATE

FEBRUARY 1997

## P-1 ITEM NOMENCLATURE

## APPROPRIATION/BUDGET ACTIVITY

## OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT

## DEFENSE METEOROLOGICAL SATELLITE PROGRAM

QUANTITY*	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mill)	13.985	10.499	11.898	11.031	9.574	8.109	7.780	3.317

The joint service Defense Meteorological Satellite Program (DMSP) mission is to provide an enduring and survivable capability through all levels of conflict, consistent with the survivability of the supported forces to collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic, and solar-geophysical data to support worldwide DoD operations and high-priority programs. Timely, high quality data is supplied to Air Force Global Weather Central, the Fleet Numerical Meteorological and Oceanography Center, and to deployed fixed and mobile ground and ship-based tactical data receipt and processing terminals worldwide. The Small Tactical Terminal (STT) program provides a highly mobile, current technology ground receiver for forward area weather support.

## TACTICAL DATA RECEIPT/PROCESSING

**SMALL TACTICAL TERMINALS (STT):** STT's provide tactical users, deployed worldwide, with a survivable "first-in" source of meteorological satellite data, receivable by small, portable terminals in forward areas of conflict. These terminals have the capability to process visual and infrared imagery and mission sensor (non-imagery) data to support combat forces. There are three versions of STTs: (1) the basic version which only processes low resolution satellite data; (2) the enhanced version which adds the capability to process high resolution from polar-orbiting satellites; and (3) a Joint Task Force version which adds the capability to process high resolution satellite data from both polar-orbiting and geostationary satellites and provides a remote operations capability. Prior year funds procured 52 production STTs. FY96-99 funds procure an additional 51, 24, 33 and 23 terminals, respectively for a total of 183, buying out the Air Force inventory objective. The total requirement is for 113 terminals (plus 2 for training) in support of Air Force operations and 68 terminals for the Air Force weather teams assigned to Army units. Additionally, FY99 funding will provide for engineering change proposals (ECPs) to correct deficiencies identified during IOT&E prior to and/or following fielding. These deficiencies must be corrected to ensure logistics supportability, prevent unauthorized data access and ensure warfighter support from the 183 terminals deployed worldwide.

## ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			0			0
FY97			0			0
FY98	9		2.584			0
FY99	19		5.900			0

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		DEFENSE METEOROLOGICAL SATELLITE PROGRAM							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

**REMARKS:**

Note: 94 of 172 deficiencies discovered during June 1995 IOT&E (initial operational test and evaluation) have been corrected.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)														
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME DEFENSE METEOROLOGICAL SATELLITE PROGRAM				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A				D. DATE FEBRUARY 1997			
Weapon System Cost Elements			IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
				QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT														

SMALL TACTICAL TERMINAL EQUIPMENT NON-RECURRING COSTS ENGINEERING/ PRODUCTION SPT PROG MGMT ADMIN ECP'S TOTAL	A	VAR 51	N/A N/A	(13,985) 12,054 452 1,479 13,985	VAR 24	N/A N/A	(10,499) 8,278 403 1,361 457 10,499	VAR 33	N/A N/A	(11,898) 10,137 311 1,008 442 11,898	VAR 23	N/A N/A	(11,031) 7,048 275 878 430 2,400 11,031
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

### C. P-1 ITEM NOMENCLATURE

#### DEFENSE METEOROLOGICAL SATELLITE PROGRAM

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### TACTICAL DATA RECEIPT PROCESSING:

#### SMALL TACTICAL TERMINAL (STT)

FY96 (BASIC)  
(ENHANCED)

FY97 (ENHANCED)  
(JOINT TASK FORCE)

FY98 (BASIC)  
(ENHANCED)

FY99 (BASIC)  
(ENHANCED)

HARRIS CORP MELBOURNE, FL	OPT/FFP 1	AFMC/SMC	DEC 95	DEC 96	12	192 2				
HARRIS CORP MELBOURNE, FL	OPT/FFP 3	AFMC/SMC	NOV 96	MAY 97 4	19 4 5 4	267 2/5a 641 2/5a				
HARRIS CORP MELBOURNE, FL	OPT/FFP 3	AFMC/SMC	NOV 97	FEB 98 4	3 4 30 4	239 2/5b 314 2/5b	YES	NO		
HARRIS CORP MELBOURNE, FL	OPT/FFP 3	AFMC/SMC	NOV 98	FEB 99 4	6 4 17 4	251 2/5c 326 2/5c	YES	NO		

#### D. REMARKS

1. STT BASIC CONTRACT (#FO 4701-94-C-0019) WAS AWARDED ON 15 JUN 94.

2. UNIT COSTS VARY DUE TO DIFFERENT STT CONFIGURATIONS. UNIT COSTS INCREASED DUE TO ENGINEERING CHANGES NECESSITATED BY DEFICIENCIES IDENTIFIED DURING JUN 95 INITIAL OPERATIONAL TEST & EVALUATION (IOT&E).

3. BASIC CONTRACT FOR STT'S ENDS IN FY96. FY97 AND SUBSEQUENT YEARS ARE EXTENDED OPTIONS NEGOTIATED WITH HARRIS CORP.

4. BASED ON RECENT EXPERIENCE WITH INITIAL PRODUCTION UNITS THE CONTRACTOR REVISED THE UNIT PRODUCTION/DELIVERY SCHEDULE.

5. PRICING TABLES WILL BE FINALIZED UPON NEGOTIATIONS COMPLETION (PROJECTED FOR JUN 97). THEREFORE, PRICING IS BASED ON PRELIMINARY ESTIMATED COSTS OBTAINED DURING EARLY STAGES OF NEGOTIATION.

A. FY 97: ESTIMATE REFLECTS AN INCREASE FOR BASIC UNIT INFLATION AND FOR ENHANCEMENT KIT/AWARD FEE INCREASE.

B. FY 98: ESTIMATE REFLECTS ENHANCED UNIT PRICE INCREASE, INFLATION AND AWARD FEE INCREASE.

C. FY 99: ESTIMATE REFLECTS AN INCREASE FOR UNIT PRICE INCREASE AND INFLATION.

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Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				NUDET DETECTION SYSTEM (NDS)							
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (In Mil)	5.580	2.085	7.995	1.313	1.797	1.597	3.513			-	

The Nuclear Detonation (NUDET) Detection System (NDS) provides a worldwide, highly survivable, near real-time capability to detect, locate, and report nuclear detonations in the earth's atmosphere or in near space. The NDS supports NUDET detection requirements for Air Force Space Command (AFSPC) (Integrated Tactical Warning and Attack Assessment (ITW/AA)), US Strategic Command (USSTRATCOM) (nuclear force management), and the Air Force Technical Applications Center (AFTAC) (treaty monitoring). The NDS consists of space, control, and user equipment segments. The space segment consists of NUDET detection sensors on the Global Positioning System (GPS)/NDS satellites, the control segment consists of the Integrated Correlation and Display System (ICADS), and the user segment consists of Ground NDS Terminals (GNT).

**NDS USER EQUIPMENT:** The user segment Ground NDS Terminals (GNT) process raw NDS sensor data and are the only systems that provide immediate NUDET detection, analysis, and reporting to the DoD and the National Command Authorities (NCA). Presently, the NDS supports national level missions for AFSPC, US Space Command (USSPACECOM), USSTRATCOM, Air Combat Command (ACC), AFTAC, NCA, and Congress. NUDET reporting is required for the ITW/AA, nuclear force management (NFM), and nuclear treaty monitoring. NUDET reporting has recently been reemphasized by the Chairman of the Joint Chiefs of Staff as the second highest priority of attack information required by the warfighters. In addition, a Presidential Decision Directive requires spaced based monitoring as a key part of the treaty monitoring and verification process for the Comprehensive Test Ban Treaty (CTBT). Finally, as the threat from nations with nuclear weapons continues to grow, the Integrated Correlation and Display System (ICADS) and Advanced Radiation Detection Units (ARDU) are the only operational systems that detect, locate, and identify an atmospheric or space NUDET.

FY96 funds procured upgrades to the ICADS, computer replacement for two main operational sites (AFTAC and AFSPC) and three remote sites (Department of Energy (DoE)/Sandia National Labs, Los Alamos National Lab, and Malabar Annex). The FY96 funds for the ARDU procured keyboards and site automated data processing (ADP) equipment.

FY97 funds for the ICADS procured the GPS receivers to replace existing receivers, serial port controllers, track recording devices for mission data, and user terminals. The FY97 funds for the ARDU will procure mission data computer printers and upgrade obsolete system workstations.

FY98 funding begins communications upgrades to the ICADS ground system to support compatibility with Block II-R and Block II-F satellite launches.

FY99 will continue life cycle replacement of ICADS computers, receivers, antennas, communication links, and peripheral devices.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME NUDET DETECTION SYSTEM (NDS)			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

NDS USER EQUIPMENT											
ICADS HARDWARE UPGRADE	A	VAR	N/A	5,350	VAR	N/A	1,500	VAR	N/A	7,995	1,313
ADRU HARDWARE UPGRADE	A	VAR	N/A	230	VAR	N/A	585				
TOTAL				5,580			2,085			7,995	1,313

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE NUDET DETECTION SYSTEM (NDS)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

NDS USER EQUIPMENT ICADS HARDWARE UPGRADE FY96  FY97  FY98  FY99	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT 1	AFMC/SMC	MAR 96	APR 96	VAR	N/A 2			
	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT 1	AFMC/SMC	JAN 97	DEC 97	VAR	N/A 2			
	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT 1	AFMC/SMC	DEC 97	DEC 98	VAR	N/A 2	YES	NO	
	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT 1	AFMC/SMC	DEC 98	DEC 99	VAR	N/A 2	YES	NO	
ARDU HARDWARE UPGRADE FY96  FY97	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT 1	AFMC/SMC	MAR 96	DEC 96	VAR	N/A 2			
	DOE/SANDIA NATIONAL LAB ALBUQUERQUE, NM	MIPR/OPT 1	AFMC/SMC	JAN 97	DEC 97	VAR	N/A 2			

D. REMARKS				Exhibit P-5a Procurement History and Planning	
1. OPTION TO DEPT OF ENERGY (DOE/SANDIA NATIONAL LABS FIRM FIXED PRICE CONTRACT #92-920330, DATED APR 92.				PAGE NO.	103
2. UNIT COSTS VARY DUE TO MULTIPLE TYPES OF COMPUTER HARDWARE BEING PROCURED.				P-1 SHOPP LIST ITEM NO.	67

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)								
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (In Mil)	24.094	17.144	32.197	40.025	24.961	34.447	47.022	47.350			

The Air Force Satellite Control Network (AFSCN) mission is to fly operational USAF and other DoD satellites. The AFSCN also provides mandatory launch and early orbit tracking operations in support of all major U.S. launches. Air Force Space Command (AFSPC) performs operations and maintenance and Air Force Materiel Command (AFMC) performs modernization and sustainment of the system to meet requirements validated by a HQ USAF approved Operational Requirements Document (ORD). This project procures mission critical electronics and telecommunications equipment for aging command and control, communications (C3), and range elements of the AFSCN to ensure DoD space systems are operationally ready to support the CINCs' (Commanders-in-Chief) warfighting requirements.

The AFSCN consists of three segments: Command and Control (C2), Communications, and Range. The system is a global infrastructure of control centers, remote tracking stations, and communications links that provide the highly reliable command and control, communications, and range systems required to support the nation's surveillance, navigation, communications, and weather satellite operations. As a national asset, the AFSCN is the DoD common user network that provides satellite state-of-health, tracking, telemetry, and commanding (TT&C) for the following operational satellite systems: DMSP (Defense Satellite Meteorological Program), GPS (Global Positioning System), DSCS (Defense Satellite Communications System), DSP (Defense Support Program), FLTSAT (Fleet Satellite), MILSTAR (Military Strategic and Tactical Relay Satellite), Skynet, NATO (North Atlantic Treaty Organization) II/IV, and classified programs.

The Satellite and Launch Control Systems Program Office (located at Space and Missile Systems Center (SMC)) is the system acquisition manager. Under the direction of the SMC System Program Director, Sacramento Air Logistics Center (SM-ALC) has been designated as the Support System Manager and the Source of Repair for that portion of the AFSCN systems operated by Air Force Space Command.

**AIR FORCE SATELLITE CONTROL NETWORK IMPROVEMENT AND MODERNIZATION (AFSCN I&M):** AFSCN I&M is an on-going program of replacements and upgrades which will meet HQ USAF validated AFSPC operational requirements to replace non-standard, unsupportable equipment with commercial-off-the-shelf (COTS) hardware and software. This new equipment will enable AFSPC satellite operations to be performed with fewer and lower skill level personnel, and will significantly reduce hardware/software (HW/SW) maintenance costs. The principal efforts within this program are:

- COMMAND & CONTROL SYSTEM UPGRADES (CCSU):** This project will replace the current C2 System segment of the AFSCN. The current CCS provides approximately 130,000 real-time satellite contacts per year using an old IBM mainframe-based, centralized computer system. The new system, the Standard Satellite Control Subsystem (SSCS), will employ a client/server, open architecture system using a high-speed communications backbone. It will use standard HW/SW elements and will provide improved capability with reduced operations and support (O&S) costs. The mission critical computer systems which are to be replaced perform satellite telemetry processing and commanding, orbit data processing, network scheduling, and software/database maintenance and

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE				FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

testing in AFSCN satellite operations centers, mission control complexes, scheduling complexes, and related training and operational software support facilities. The Resource Management System (RMS), which deconflicts and allocates network telemetry, tracking & command (TT&C) assets to support operational space vehicles will be replaced with an automated system which includes selected orbit and radio frequency interference functions to enable more rapid and efficient use of network resources. This evolution offers tremendous potential for reducing satellite control operation & maintenance (O&M) costs through enhanced commonality and standardization, simplified operations, and automation. Commercial-off-the-shelf (COTS) HW/SW will be procured for the RMS (network scheduling which includes portions of space safety and hazard analysis previously provided by Intra-Range Operations facilities) and the Standard Satellite Control Subsystem (SSCS). The SSCS upgrades will be based upon the satellite programs prioritized list of needed enhancements and will be implemented in a phased approach to meet satellite program windows of opportunity.

FY96 funding procured the hardware suites for RMS primary and backup operations centers. The RMS hardware suites consist of workstations, servers, a local area network (LAN), computer security devices and hubs to support the AFSCN scheduling and orbit services at Falcon AFB, CO and one backup station. The initial set of the Standard Satellite Control Subsystem (SSCS) hardware was also acquired and includes workstations, a LAN, servers and hubs. The SSCS hardware was installed in the SSCS lab for development and checkout before transition to the first satellite program for operational use.

FY97 funding will procure two (2) copies of the SSCS hardware suite for delivery to AFSPC prioritized satellite programs for integration into their mission ground systems. The SSCS will be a COTS purchase of the Distributed Command and Control System (DCCS), a TT&C system that has been developed by another government organization. The SSCS hardware suite consists of workstations, a LAN, telemetry front-end processing equipment and servers.

FY98 funding will procure one (1) copy of the SSCS hardware suite for delivery to a AFSPC prioritized satellite program for integration into its mission ground system.

FY99 will procure one (1) copy of the SSCS hardware suite for delivery to a AFSPC prioritized satellite program for integration into its mission ground system. It will also procure the hardware suites for the primary and backup space safety and hazard analysis service (SSHA) for the AFSCN. The primary and backup SSHA hardware suites consist of workstations, servers, printers, and LAN network hubs.

b. **RANGE AND COMMUNICATIONS UPGRADES:** These projects will transition the current, costly point-to-point AFSCN communications network to a communications grid system that integrates government and commercial networks as technology becomes available. Several standardization efforts are being implemented to improve and modernize the communications and ground segment elements of the AFSCN, including: (1) archival recorder systems to replace

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY						
COST (In Mil)						

obsolete, manpower-intensive analog equipment with automated, standardized digital COTS systems; (2) a Centralized Control & Monitor (CC&M) system which will consolidate communications operations, provide remote control of tracking station communication equipment, and increase fault detection and isolation capabilities to reduce O&M costs; and (3) Wide Area Network Interface Units (WANIU) which standardize hardware, enable future access to the Defense Information System Network (DISN) for access to the DISN global grid, and reduce O&M costs for performing multiplexing functions in the AFSCN. Capacity, reliability, data quality, and user access to the AFSCN will be improved.

FY96 funding included procurement and installation of additional archival recorder system units for the Remote Ground Facilities (RGFs). An Engineering Change Proposal will be implemented for the Downlink Terminal (DLT) upgrade which will provide DLT connectivity to Falcon AFB (FAFB), CO that is identical to the current configuration on narrowband communication lines at Onizuka Air Station, CA.

FY97 funding will correct system deficiencies as identified and prioritized by AFSPC as part of the overall Range and Communications plan.

FY98 will procure equipment for the first Operational Switch Replacement (OSR) to be installed and operational no later than FY00 to meet Onizuka AS, CA realignment requirements identified by base realignment and closure directives, and to provide ATM switching capability for the AFSCN. Funding will also procure and install client/server hardware to replace the antiquated Automated Remote Tracking Station (ARTS) Control and Status (C&S) personal computer-based architecture. Additionally, it will procure and install the Range and Communications Centralized Control and Monitor (RC<sup>3</sup>M) system hardware to provide remote control and status of range equipment utilizing the Centralized Control & Monitor (CC&M) architecture.

FY99 funding will procure equipment for a second OSR; this redundancy will meet AFSPC requirements that specify there shall be no single points of failure. Funds will also complete procurement of RC<sup>3</sup>M system hardware.

(continued)

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

c. **SECURITY UPGRADES:** These security upgrade projects improve security for assets essential to the assured operational capability of the AFSCN.

FY 98 funding will procure and install equipment to replace computers in the existing security control system buried-line intrusion detection system on the perimeter of the AFSCN control node at Falcon AFB, CO.

FY 99 funding will replace the security control system microwave intrusion detection system at the AFSCN Control Node with an infrared detection system, and will procure and install equipment for Defense Satellite Communications System building to interface with the security control system at Falcon AFB, CO.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

AFSCN I & M		VAR	N/A	(24,094)	VAR	N/A	(17,144)	VAR	N/A	(32,197)	VAR	N/A	(40,025)
a. COMMAND & CONTROL SYSTEM UPGRADES	A			12,774			13,500			6,100			13,305
b. RANGE AND COMM UPGRADES	A			11,320			3,644			24,997			22,120
c. SECURITY UPGRADES										1,100			4,600
TOTAL				24,094			17,144			32,197			40,025

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

AFSCN I&M	A. COMMAND & CONTROL UPGRADES FY96	LOCKHEED MARTIN FED SYS (LMFS)	C/CPAF	AFMC/SMC	MAY 96	MULTI	1 <sup>1</sup>	N/A 2							
		COLORADO SPG, CO													
		LMFS, C-SPG, CO	OPT/CPAF	AFMC/SMC	JUL 97	MULTI	2 <sup>1</sup>	N/A 2	YES	NO					
		LMFS, C-SPG, CO	OPT/CPAF	AFMC/SMC	DEC 97	MULTI	1 <sup>1</sup>	N/A 2	NO 3	YES					SEP 97
	FY98	LMFS, C-SPG, CO			DEC 98	MULTI	1 <sup>1</sup>	N/A 2	NO 3	YES					SEP 98
		LMFS, C-SPG, CO	OPT/CPAF	AFMC/SMC											
	B. RANGE & COMM UPGRADES FY96	LOCKHEED MARTIN SUNNYVALE, CA	C/CPAF	AFMC/SMC	MAR 96	MULTI	1 <sup>1</sup>	N/A 2							
		LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF	AFMC/SMC	JUL 97	MULTI	1 <sup>1</sup>	N/A 2	YES	NO					
		LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF	AFMC/SMC	DEC 97	MULTI	1 <sup>1</sup>	N/A 2	NO 3	YES					SEP 97
C. SECURITY UPGRADES	FY98	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF	AFMC/SMC	DEC 98	MULTI	1 <sup>1</sup>	N/A 2	NO 3	YES					SEP 98
		LOCKHEED MARTIN SUNNYVALE, CA													
		LOCKHEED MARTIN SUNNYVALE, CA													
	FY99	ALLIED SIGNAL COLORADO SP, CO	OPT/CPAF 4	AFMC/SM-ALC	OCT 97	MULTI	1 <sup>1</sup>	N/A 2	NO 3	YES					SEP 97
		ALLIED SIGNAL COLORADO SP, CO													
		ALLIED SIGNAL COLORADO SP, CO	OPT/CPAF 4	AFMC/SM-ALC	OCT 98	MULTI	1 <sup>1</sup>	N/A 2	NO 3	YES					SEP 98

- D. REMARKS**
1. A QUANTITY OF "1" INDICATES ONE LOT OF EQUIPMENT ASSOCIATED WITH A SPECIFIC OPERATIONAL CAPABILITY.
  2. UNIT COSTS VARY BECAUSE OF DIFFERENT TYPES/CONFIGURATIONS OF EQUIPMENT BEING PROCURED.
  3. SPECIFICATIONS ARE GENERATED FOR EACH INDIVIDUAL PROJECT TO SATISFY SPECIFIC OPERATIONAL NEEDS.
  4. OPTION TO PRIOR YEAR SM-ALC EQUIPMENT CONTRACT FOR SECURITY SYSTEMS WITH ALLIED SIGNAL CORP.

P-1 SHOPP LIST ITEM NO. 68		PAGE NO. 109	Exhibit P-5a Procurement History and Planning		
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## UNCLASSIFIED

**BUDGET ITEM JUSTIFICATION**  
**(EXHIBIT P-40)**

**DATE** FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	110.447	101.695	81.957	100.938	96.205	102.239	114.955	99.421

Two national ranges, the Eastern Range (ER) at Patrick AFB, FL, and the Western Range (WR) at Vandenberg AFB, CA, provide tracking, telemetry, communications, command/control, and other support capabilities necessary to safely and successfully conduct civil, commercial, and national security spacelift operations, ballistic missile test and evaluation (T&E), and a variety of aeronautical and guided weapons T&E. Range assets are based on 1950s/1960s designs and technology and are arrayed in a highly inefficient, manpower-intensive architecture. Range instrumentation reliability is deteriorating and over 40 percent of the components are obsolete with no sources of support. The ranges do not provide the responsiveness and flexibility critical to affordably support the nation's spacelift needs. Replacement of the aging systems is a necessity. Accordingly, the Air Force is upgrading the ranges through two closely related efforts. The Range Standardization and Automation Program (RSA) will improve operability while reducing operations and maintenance costs, and the Improvement and Modernization (I&M) program will provide continuing range enhancement.

The RSA program will completely overhaul and modernize both the ER and the WR, treating the two as a single integrated range system with an Eastern and Western segment. RSA will develop the integrated range system, using remote control and automation techniques to reduce the number of required operators, sites and facilities, and to produce improved responsiveness. The result will be a range system reconfigurable from one major operation to another in less than four hours versus the 2-3 days, capable of being operated for 20 percent less cost than current ranges, and supportable through existing Air Force logistics infrastructure and standard practices. RSA is critical to the future of the spacelift ranges; performance and cost goals cannot be achieved without RSA.

The I&M program enhances critical systems to maintain current capabilities until RSA is implemented; upgrades fielded systems and maintains compatibility with RSA; and continues to improve the ranges after RSA is implemented. To comprehensively manage the range I&M program, the Air Force defines the components/functions of both the ER and WR as an integrated weapon system consisting of three major segments: Instrumentation, Network and Control/Display. The Instrumentation Segment includes command functions and sensors which perform telemetry, tracking, weather, launch area surveillance, and optical data collection. The Network Segment includes the hardware and associated software necessary for voice, data, and video communications, time synchronization and frequency management control. The Control/Display Segment provides data processing and display of information necessary for range and launch operations personnel to execute their mission responsibilities.

Following are details of the FY96-99 program:

- 1. RANGE STANDARDIZATION AND AUTOMATION (RSA):** The RSA program will completely overhaul and redesign the ER and WR. RSA program objectives include: (a) replacing or eliminating over 25,000 obsolete components, many of which have no sources for spares; (b) standardizing equipment and operations across both ranges; (c) eliminating reliance upon separate, non-standard logistics support and depot maintenance infrastructures; and (d) incorporating automation and remote control to consolidate sites and functions, thus increasing responsiveness and significantly reducing the manpower required

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY					
COST (In Mil)					

for operations and maintenance. The two key payoffs of RSA are the reduction in operations and maintenance costs by over 20 percent; and the reduction of range configuration time between major operations from between 36-72 hours, to less than four hours. In FY97, the RSA Phase I contract will purchase commercial-off-the-shelf equipment for the Satellite Communications (SATCOM) System supporting the ER, Antigua, and Ascension Islands. Also in FY97, RSA Phase I will complete instrumentation and software builds in the test facility for the Centralized Telemetry Processing System (CTPS) and Cape Fiber Optic Network (CFON).

The RSA Phase IIA contract, awarded in November 1995, will provide a complete Spacelift Range System (SLRS) design defined by a System Specification and Baseline System Description. It will replace imaging, surveillance, weather, optics, range communications and mobile systems. It will also provide instrumentation for a new WR Operations Control Center (WROCC). Incremental delivery of products on this contract will provide an operational capability as soon as possible. Scheduled deliveries are based on the most effective reductions in life cycle costs and to maintain and enhance operational reliability. The first increment included basic infrastructure, planning and scheduling systems. Early in FY97, the balance of the first increment, including optics instrumentation and weather instrumentation, continued with test and evaluation activities. The second increment will begin procurement in FY98, to include the Network Manager. This increment will continue in FY99 with the purchase of the core equipment which includes multiplexing and end item equipment. Final purchases will occur in FY99 for timing, voice, data, and video handling equipment. The third increment includes flight operations analysis equipment/software and Range Safety Systems and will start in late FY99. In total, this contract includes six incremental capability deliveries to be turned over operationally by 2006. This contract continues through 2006 to integrate the product deliveries from RSA Phase IIB in FY00 and the I&M program.

## 2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION

### a. INSTRUMENTATION SEGMENT:

FY96 funding replaced obsolete and unreliable components with new technology hardware; provided needed upgrades to existing range systems to interface to the RSA Phase I design and protocols; procured Global Positioning System (GPS) based atmospheric sounding systems; upgraded radar and telemetry system computers to allow remote control under the RSA concept; replaced obsolete and unsupportable radar klystron transmitters; upgraded the weather radar to improve volumetric scan display capability; and replaced obsolete measurement and analysis equipment. FY97 funds procure additional upgrades to existing range systems to interface to RSA Phase I, procures additional GPS based sounding systems, and continues replacing obsolete measurement and analysis equipment.

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)								
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
COST (In Mil)										

FY98 funds will procure Ground Translator Processor Systems (GTPS) at the Cape Canaveral Air Site (CCAS), Jonathan Dickenson Missile Tracking Annex (JDMTA), Antigua Consolidated Instrumentation Facility (CIF), Ascension CIF, Bermuda, and Argentina sites.

FY99 funds the Radar Embedded Computer effort to replace aging real-time operating computers, and the acquisition of Doppler Weather Radar. FY99 funding will also initiate instrumentation upgrades, and complete upgrades to improve Multiple Object Tracking Radar (MOTR) tracking capabilities.

b. **NETWORK SEGMENT:** This project complements the communications upgrades under the RSA program. Funding for this project includes modernizing existing range systems in accordance with RSA design or enhancing existing equipment until it is replaced under the RSA program.

FY96 funds provided communications backbone upgrades that will extend the RSA Phase I system design out to individual user facilities, replace lead airlifted cables at CCAS, replace existing cables at Ascension Island with fiber optic cable, provide needed upgrades to deteriorated power distribution systems at CCAS fiber optic node sites, and purchase additional timing system equipment.

FY97 funds provide additional communications backbone upgrades and replace obsolete and unsupportable Transistorized Operational Phone System (TOPS) and point-to-point phones.

FY98 funds will replace existing analog voice communications systems with a digital intercom system, which will support both secure and non-secure voice communications.

FY99 funds will complete acquisition/installation/integration of the Range-Wide Digital Intercom System.

c. **CONTROL/DISPLAY SEGMENT:** This equipment enhances range data processing capabilities until the RSA data processing architecture is completed.

FY96 funding provided needed upgrades to existing range systems to interface to the RSA Phase I design and protocols, and continues modernization of additional meteorological and mission processing and display systems.

FY97 funding provides additional upgrades to existing range systems to interface to the RSA Phase I design and protocols, replace the unreliable Central Command Remoting System and continues modernization of additional meteorological and mission processing and display systems.

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<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>							<b>DATE</b>
<b>APPROPRIATION/BUDGET ACTIVITY</b>		<b>P-1 ITEM NOMENCLATURE</b>					
<b>OPAF/ELECTRONICS &amp; TELECOMMUNICATIONS EQUIPMENT</b>		<b>EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&amp;M)</b>					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY							
COST (In Mil)							

FY99 funds will initiate replacement of the meteorological sounding system with a GPS based sounding system and acquisition of the Air Force Automated Weather Dissemination System.

a. **INSTRUMENTATION SEGMENT:** FY96-99 funds continue life extension upgrades to tracking radar, surveillance, optics, and command, control and weather instrumentation sites as required until the RSA program replaces aging equipment.

**FY99 funds will purchase a second mobile telemetry receiving station with GPS.**

FY96 funding procured the communications system upgrade for the Ewa Beach, HI, high frequency (HF) site, replaced the AN/TPQ-18 communications system, replaced the Molokai, HI antenna, replaced ultra high frequency (UHF/VHF) radio systems at four remote sites (Anderson Peak, Pillar Point, Wheeler AFS, and Vandenberg Telemetry Receiving Station), replaced electromagnetic interference/electromagnetic compatibility test equipment, upgraded the frequency monitoring station communications system, and upgraded Anderson Peak communications.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)										

FY97 will procure operational voice system and video system replacements, upgrade backup power for the Ewa Beach HF site, continue upgrades for the Anderson Peak Communications System, replace the Command Transmitter Communications Site equipment, replace the Secure Transmission System (STS) Command Transmitter Decoder, upgrade the Frequency Monitoring Station (FMS) Telemetry Monitoring Station, upgrade the status and alert transmission system, upgrade the data transfer center wideband distribution system and replace the Operational System Test Facility antenna system.

FY98 will procure: a Frequency Monitoring Van, a Radio Frequency Interference Van, a Western Range Mobile Communications Van, a Range Safety Missile Flight Battery, a Narrowband Communications System, a Voice Communication Panel, Anechoic Test Facility Replacements, a GPS Timing Network, CT-2 and 3 Communication Systems, an FMS Transmission System, a Secure Code Insertion Unit, Operations Control Center (OCC) Visual Displays, and Range Video Transmission upgrades.

FY99 funds will replace the Range Video Transmission System, procure a Mobile Communications Van capability, install Network Life Extensions and upgrade Bldg 7000 Data Transfer at Vandenberg AFB, replace Radio Frequency Equipment, upgrade Remote Site Audio, install additional OCC Visual Displays, and upgrade remote site UHF/VHF radios and portable UHF radios.

- c. CONTROL/DISPLAY SEGMENT: This equipment enhances range data processing capabilities until the RSA data processing architecture is complete.
- FY96 funds procured a common ER and WR Meteorological Interactive Data Display System and a Range Safety Deficiencies Corrections (RDSC) console upgrade.
- FY97 funding purchases the Data Distribution Interface to the RSDC system, a Metric Data Processing System (MDPS), and an Acquisition Data System (ADS).
- FY98 will correct range safety deficiencies, and upgrade Universal Telemetry Inertial Guidance and DC-80 printer plotters.
- FY99 funding will procure Weather and Surveillance Data Processing Life Extensions, complete the WR MDPS and the RSDC upgrades, and provide for Data Integrated Processing System (DIPS) Plotboard (PB) replacement.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
Weapon System Cost Elements			FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT													

1. RANGE STANDARDIZATION & AUTOMATION (RSA) a. Phase I b. Phase IIA	A	VAR	N/A	(38,795)	VAR	N/A	(36,104)	VAR	N/A	(27,981)	VAR	N/A	(49,519)
				6,045			6,142			27,981			49,519
				32,750			29,962						
2. EAST RANGE (ER) I & M a. INSTRUMENTATION SEGMENT b. NETWORK SEGMENT c. CONTROL/DISPLAY SEGMENT	A	VAR	N/A	(41,429)	VAR	N/A	(33,843)	VAR	N/A	(27,087)	VAR	N/A	(28,369)
				19,756			8,150			8,525			14,120
				10,780			15,890			16,599			7,744
				10,893			9,803			1,963			6,505
3. WEST RANGE (WR) I & M a. INSTRUMENTATION SEGMENT b. NETWORK SEGMENT c. CONTROL/DISPLAY SEGMENT	A	VAR	N/A	(30,223)	VAR	N/A	(31,748)	VAR	N/A	(26,889)	VAR	N/A	(23,050)
				15,853			8,655			9,366			8,863
				10,004			18,260			10,329			10,065
				4,366			4,833			7,194			4,122
TOTAL				110,447			101,695			81,957			100,938

P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 195	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. RANGE STANDARDIZATION AND AUTOMATION (RSA)										
PHASE I 1										
FY96	HARRIS CORP MELBOURNE, FL	OPT/CPAF 2	AFMC/SMC	MAR 96	AUG 96	VAR	N/A 3			
FY97	HARRIS CORP MELBOURNE, FL	OPT/CPAF 2	AFMC/SMC	JAN 97	JUN 97	VAR	N/A 3			
PHASE II A 4										
FY96	LOCKHEED MARTIN SUNNYVALE, CA	C/CPAF/CPFF	AFMC/SMC	NOV 95	DEC 96	VAR	N/A 3			
FY97	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF/CPFF	AFMC/SMC	OCT 96	APR 97	VAR	N/A 3			
FY98	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF/CPFF	AFMC/SMC	OCT 97	MAR 98	VAR	N/A 3	YES <sup>6</sup>	NO	
FY99	LOCKHEED MARTIN SUNNYVALE, CA	OPT/CPAF/CPFF	AFMC/SMC	OCT 98	JAN 99	VAR	N/A 3	YES <sup>6</sup>	NO	
D. REMARKS BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.										
				P-1 SHOPP LIST ITEM NO.	69	PAGE NO.	196			
Exhibit P-5a Procurement History and Planning										

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C. P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

2. EASTERN RANGE (ER) IMPROVEMENT AND MODERNIZATION (I&M)										
A. INSTRUMENTATION SEGMENT										
FY96	MULTIPLE 5	C/FP 5	AFMC/SMC	JUL 96	MULTI 5	VAR 5	N/A 5			
FY97	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 97	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY98	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 98	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY99	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 99	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
B. NETWORK SEGMENT										
FY96	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 96	MULTI 5	VAR 5	N/A 5			
FY97	MULTIPLE 5	C/FP 5	AFMC/SMC	FEB 97	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY98	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 98	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY99	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 99	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
C. CONTROL/DISPLAY SEGMENT										
FY96	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 96	MULTI 5	VAR 5	N/A 5			
FY97	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 97	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY98	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 98	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY99	MULTIPLE 5	C/FP 5	AFMC/SMC	JAN 99	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	

D. REMARKS BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.			P-1 SHOPP LIST ITEM NO. 69	PAGE NO. 197	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

3. WESTERN RANGE (WR) IMPROVEMENT AND MODERNIZATION (I&M)										
A. INSTRUMENTATION SEGMENT										
FY96	MULTIPLE 5	C/FP	AFMC/SMC	JAN 96	MULTI 5	VAR 5	N/A 5			
FY97	MULTIPLE 5	C/FP	AFMC/SMC	JAN 97	MULTI 5	VAR 5	N/A 5			
FY98	MULTIPLE 5	C/FP	AFMC/SMC	JAN 98	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY99	MULTIPLE 5	C/FP	AFMC/SMC	JAN 99	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
B. NETWORK SEGMENT										
FY96	MULTIPLE 5	C/FP	AFMC/SMC	DEC 95	MULTI 5	VAR 5	N/A 5			
FY97	MULTIPLE 5	C/FP	AFMC/SMC	DEC 96	MULTI 5	VAR 5	N/A 5			
FY98	MULTIPLE 5	C/FP	AFMC/SMC	DEC 97	MULTI 5	VAR 5	N/A 5		NO	
FY99	MULTIPLE 5	C/FP	AFMC/SMC	DEC 98	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
C. CONTROL/DISPLAY SEGMENT										
FY96	MULTIPLE 5	C/FP	AFMC/SMC	JAN 96	MULTI 5	VAR 5	N/A 5			
FY97	MULTIPLE 5	C/FP	AFMC/SMC	MAR 97	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY98	MULTIPLE 5	C/FP	AFMC/SMC	JAN 98	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	
FY99	MULTIPLE 5	C/FP	AFMC/SMC	JAN 99	MULTI 5	VAR 5	N/A 5	YES <sup>6</sup>	NO	

D. REMARKS BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.				P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning	
				69	198		

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C. P-1 ITEM NOMENCLATURE EASTERN/WESTERN RANGE IMPROVEMENTS AND MODERNIZATION (I&M)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## FOOTNOTES:

1. The RSA Phase 1 contract is for radar trackers and transmitters for Antigua and Ascension Islands, central telemetry processing systems for both ranges, and fiber optics and satellite communications networks for the Eastern Range.
2. Option to competitive FY93 cost plus award fee contract to Harris Corp.
3. Multiple types of equipment resulting in various unit costs.
4. The RSA Phase IIA contract is a competitively awarded contract (with options for six years) to provide a system-wide range architecture replacing imaging, surveillance, weather, optics, range communications, and mobile systems.
5. Procurement will consist of numerous individual components to retrofit obsolete and worn out equipment currently in use until replaced by RSA. Parts are integrated by the range contractor (Computer Sciences/Raytheon at Cape Canaveral, FL or ITT Federal Systems at Vandenberg AFB, CA). Contractors are typically General Electric/RCA (several divisions), Raytheon, Datron, Control Data Corp, Gould Sel Systems, Collins, Hewlett-Packard, Teledyne, Varian, and several small businesses located at or near Vandenberg or Cape Canaveral. Above award dates indicate date of first contract award. Multiple delivery dates. Quantities and unit costs vary because of various components being procured.
6. The RSA Phase IIA contractor is the integrator for RSA and I&M projects. Acquisition reform allowed the RSA Phase IIA contractor to define the Spacelift Range System after contract award (Nov 95). The RSA Phase IIA contractor will deliver a System Specification in Feb 97. The System Specification will definitize the Spacelift Range System for the Eastern and Western Ranges. Award dates reflect the first contract award of several contracts awarded throughout the year.

D. REMARKS BECAUSE OF THE LIMITED SPACE, THE FOOTNOTES ARE LOCATED AT THE END OF THIS P-5A.		P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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## UNCLASSIFIED

BUDGET ITEM JUSTIFICATION  
(EXHIBIT P-40)DATE  
FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				MILSATCOM	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY							
COST (In Mil)	47.708	52.042	20.353	27.893	32.521	25.906	21.842
							21.942

MILSATCOM is a joint service satellite communications system that provides secure, jam-resistant, 24-hour, worldwide communications to meet essential strategic, tactical, and general purpose operational requirements for high-priority military users. The equipment supports validated communication requirements for the National Command Authorities (NCA), Unified and Specified Commanders-in-Chief (CINC), services, and agencies.

1. **MILSTAR - AF TERMINALS:** The Air Force is responsible for the procurement of Command Post Terminals and ground-based mission control equipment to operate over the military satellite communications system.

**COMMAND POST TERMINALS:** Command Post Terminals (CPTs) support communications at major NCA and CINC command centers, as well as the relay of warning data from sensor sites. Prior year funding procured 59 ground terminals (nine fixed extremely high frequency/ultra high frequency (EHF/UHF), 28 fixed EHF-only, six transportable EHF/UHF, seven transportable EHF-only, two EHF/UHF platform sets, and seven EHF-only platform sets).

FY96 funds provided installation support, factory repair (until turnover), data, interim contractor support, system engineering, and program support.

FY97 funds continue installation support, factory repair, system engineering and program support, and provide for terminal enhancements such as computer processor upgrades.

FY98/99 funds will continue to provide installation support, factory repair, system engineering and program support.

2. **MILSTAR TACTICAL TERMINALS:** Certain Air Force users require extremely high frequency (EHF) Milstar connectivity, but with less capability than that provided by the Command Post Terminals. These users will employ two types of Army-procured ground tactical terminals to satisfy their Milstar requirements.

a. **SINGLE CHANNEL ANTI-JAM MAN-PORTABLE (SCAMP) TERMINALS:** SCAMP is a single channel 37-pound portable manpack designed for use with the Milstar EHF package. It is capable of transmitting/receiving low data rate (LDR) voice, data and facsimiles. The Air Force procurement of SCAMP supports HQ US Strategic Command (USSTRATCOM) and Air Force Special Operations Command (AFSOC) communications requirements and replaces connectivity currently provided by the Ground Wave Emergency Network (GWEN).

FY96/97 funds procure 55 and 99 SCAMPs respectively, for a total of 154, along with associated electromagnetic pulse hardened input/output devices. This buys out the SCAMP requirement. Additionally, FY96-99 funding provides for program and engineering support.

b. **SECURE, MOBILE ANTI-JAM RELIABLE TACTICAL TERMINALS (SMART-T):** SMART-T is a multi-channel communications platform designed for use with Milstar EHF. It is capable of transmitting/receiving low data rate (LDR) and medium data rate (MDR) voice, data and facsimiles. The Air Force procurement of SMART-T supports Air Force Space Command (AFSPC), Air Intelligence Agency (AIA), Air Mobility Command (AMC), Pacific Air Forces (PACAF) and US Air Force Europe (USAFE) communications requirements.

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		MILSATCOM							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

FY97 funds procure nine low-rate initial production (LRIP) SMART-Ts; three SMART-T terminals for USAFE and six for AMC.  
 FY98 funds provide for engineering and program support to ensure AF requirements are met prior to full-scale production of the Army contract.  
 FY 99 funds provide 20 full-scale production SMART-T Army terminals with associated program and engineering support out of a total planned procurement of 73; two for Air Combat Command (ACC), three for PACAF, six for AMC, two for USAFE, two for AIA, and five for AFSPC.

*RD&E information can be found on the Descriptive Summaries - 2487 MILSATCOM Terminals, PE 33601F.*

3. **ULTRA HIGH FREQUENCY (UHF) SATELLITE COMMUNICATIONS (SATCOM):** Increasing requirements for UHF satellite capacity, coupled with limited channel capacity, led the Joint Staff to mandate new interoperability standards for UHF users that are designed to improve satellite access and efficiency by utilizing Demand Assigned Multiple Access (DAMA) techniques.

a. **NETWORK CONTROL SYSTEM (NCS):** To satisfy a Joint Chief of Staff (JCS) mandate to implement DAMA on 5 Kiloherz (KHZ) and 25 KHZ UHF communications channels, the Air Force is procuring four network controllers to field an initial system capable of controlling five channels of 5 KHZ DAMA and two channels at 25 KHZ DAMA at four sites worldwide.

FY96 funds procured and installed initial NCSs including modems, radios, antennas, and computers along with site survey, integration and program support.

FY97 continues program support and site surveys and integration, and provides interim contractor (ICS) support for the four network control system sites.

FY98 funds will continue program support and ICS.

FY99 funds will continue program support and provide for NCS terminal enhancements resulting from military standard (MILSTD) updates.

b. **GROUND TERMINALS:** The Air Force is procuring DAMA-capable Enhanced Manpack UHF Terminals (EMUT) and ancillary equipment (power supplies, vehicles mounts, antenna, and input/output devices) to support Air Force Special Operations Command (AFSOC), AMC, ACC, and other users in response to the Joint Chief of Staff (JCS) mandate to implement DAMA for UHF satellite access.

FY96 funding provided EMUT ancillary equipment for EMUTs procured in FY92 and FY93, as well as program support.

FY97 funding procures 200 EMUTs, associated ancillary equipment, and program support.

FY98 procures 223 Multiband Multimission Radios (MBMMR) for Air Force Special Operations Command (AFSOC) and associated program support.

FY99 funds enhancements of fielded terminals resulting from MILSTD updates, and program support.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)									
DATE FEBRUARY 1997									
P-1 ITEM NOMENCLATURE MILSATCOM									
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT									
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY									
COST (In Mil)									

4. **SUPER HIGH FREQUENCY (SHF) TERMINALS:** SHF terminals support the command and control requirements of unified and specified Commanders-in-Chief (CINCs) and the connectivity requirements of the National Command Authority, US strategic and tactical forces and NATO. DSCS is a major component of the Defense Communications System (DCS). The Air Force has responsibility for selected locations which help comprise the ground segment. In addition to procuring the following systems' equipment, FY97/98/99 funding also provides program support.

Ground Mobile Forces Satellite Communications (GMFSC) provide survivable, jam resistant communications for rapid tactical and crisis/contingency operations. Terminals support the Theater Air Control System, Rapid Deployment Forces, and National Command Authority (NCA)/Joint Chiefs of Staff (JCS) directed operations. FY96 funds procured equipment for evaluating Defense Satellite Communications System (DSCS) control ordnance systems.

Jam Resistant Secure Communications (JRSC) network is a subset of the DSCS. It provides jam resistant, secure, nuclear effects protected MILSATCOM connectivity between selected Air Force facilities and elements of the NCA. This equipment has the ability to either stabilize or maximize the data throughput for the critical communications lines. FY96-FY99 funds continue to procure equipment for turn-key facilities which support the upgrade of the DSCS and JRSC network to include sensor sites and DSCS hub stations. The specific equipment being procured includes: AN/GSC-49 and HT/MT modernization kits, fiber optic modems, patch panels, timing sources, and interfacing links.

Single Channel Transponder System (SCTS) provides Emergency Action Message (EAM) and Force Direction Message (FDM) dissemination capability to selected command centers and force elements for the control of nuclear forces. FY96 funds procured processors and converters for 12 SCTS systems.

5. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	-		.170	-		0
FY97	-		0	-		0
FY98	-		0	-		0
FY99	-		0	-		0

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## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT											
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

1. MILSTAR - AF TERMINALS	VAR	N/A	17,908	VAR	N/A	20,237	VAR	N/A	3,056	VAR	N/A	3,849
CMD POST TERM.			(17,908)			(20,237)			(3,056)			(3,849)
TERMINAL ENH.			1,369	VAR	N/A	10,463			1,000			1,000
INSTALL SPT			2,163			1,178			1,000			1,000
FACTORY REPAIR			462			1,475						
DATA			5,231									
ICS			6,265			3,191			270			1,049
SUPPORT ENGR			2,418			3,930			786			800
PROGRAM SPT												

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT												
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999				
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

2. MILSTAR-TACTICAL TERMINALS		VAR		10,851	VAR	N/A	17,048	VAR	N/A	1,797	VAR	N/A	15,429
a. SCAMP TERMINALS EQUIPMENT SUPPORT ENGR PROGRAM SPT	A	55	(10,851)	10,736	99	78	(10,162)			(1,306)			(1,105)
			57				2,150			931			455
			58				315			375			650
b. SMART-T EQUIPMENT SUPPORT ENGR PROGRAM SPT	B				9	548	(6,886)	N/A	N/A	(491)	20	460	(14,324)
							4,932			116			9,207
							1,639			375			4,662
							315						455

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999		
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

3. UHF SATCOM		VAR	11,483	VAR	N/A	10,225	N/A	VAR	N/A	8,031	VAR	N/A	5,045
a. NETWORK CNTL SYS	A		(7,891)			(3,542)				(922)			(813)
CONTROL SEGMENT		4	736										
NCS RADIO SET EQ		40	4,597			592				139			288
PROGRAM SPT			1,769			386							
SITE SURVEY & INTEGRATION			789										
TERMINAL ENHANCE						2,564		VAR	N/A	783		N/A	525
ICS													
b. GROUND TERMINALS	A		(3,592)			(6,683)				(7,109)			(4,232)
EMUTS				200	21	4,186							
EMUT ANCILLARY EQ		VAR	3,089			1,300	223			6,020			567
MBMMR										1,089			3,665
PROGRAM SPT			503			1,197		VAR	N/A				
TERMINAL ENHANCE													

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME MILSATCOM		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

4. SHF TERMINALS		VAR	N/A	(7,466)	VAR	N/A	(4,532)	VAR	N/A	(7,469)	VAR	N/A	(3,570)
GMFSC EQUIPMENT	A	VAR	N/A	749	VAR	N/A	1,498	VAR	N/A	1,576	VAR	N/A	610
JRSC INTERCONNECT FACILITY EQUIPMENT	A	VAR	N/A	2,912	VAR	N/A	1,862	VAR	N/A	4,381	VAR	N/A	2,238
SCTS EQUIP	A	VAR	N/A	3,805									
PROGRAM SUPPORT							1,172			1,512			722
TOTAL				47,708			52,042			20,353			27,893

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

#### C. P-1 ITEM NOMENCLATURE

#### MILSATCOM

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### 1. MILSTAR - AF TERMINALS

COMMAND POST TERMINALS  
TERMINAL ENHANCEMENTS  
FY97

RAYTHEON 1  
MARLBORO, MA  
ROCKWELL 1  
RICHARDSON, TX

OPT/FFP 2  
OPT/FFP 2

AFMC/ESC  
AFMC/ESC

MULTI 3  
MULTI 3

MULTI 3  
MULTI 3

VAR  
VAR

N/A 4  
N/A 4

YES  
YES

NO  
NO

#### 2. MILSTAR-TACTICAL TERMINALS

A. SCAMP TERMINALS  
FY96

ARMY/ROCKWELL  
RICHARDSON, TX  
ARMY/ROCKWELL  
RICHARDSON, TX

C/FFP/MIPR  
OPT/FFP/MIPR

AFMC/ESC  
AFMC/ESC

FEB 96  
FEB 97

MAR 98  
MAR 98

55  
99

195  
78

YES  
YES

NO  
NO

#### B. SMART-T

FY97  
FY99

ARMY/RAYTHEON  
MARLBORO MA  
ARMY/RAYTHEON  
MARLBORO MA

OPT/FFP/MIPR<sup>5</sup>  
OPT/FFP/MIPR<sup>5</sup>

AFMC/ESC  
AFMC/ESC

FEB 97  
FEB 99

OCT 98  
OCT 00

9  
20

548  
560

YES  
YES

NO  
NO

#### 3. UHF SATCOM

#### D. REMARKS

DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				MILSATCOM						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

A. NETWORK CONTROL SYS	FY96	VIASAT, INC. CARLSBAD, CA	OPT/FFP 6	AFMC/ESC	APR 96	AUG 96	4 <sup>7</sup>	184 <sup>8</sup>		
	FY96	VIASAT, INC. CARLSBAD, CA	OPT/FFP 6	AFMC/ESC	APR 96	AUG 96	40	115 <sup>9</sup>		
	FY99	VIASAT, INC. CARLSBAD, CA	OPT/FFP 6	AFMC/ESC	NOV 98	JAN 99	VAR	N/A	YES	JUL 97
B. GROUND TERMINALS	FY96	ARMY/MAGNAVOX FT WAYNE IN	C/FFP/MIPR	AFMC/ESC	MAR 97	JUN 97	VAR	N/A <sup>4</sup>		
	FY97	ARMY/MAGNAVOX FT WAYNE IN	OPT/FFP/MIPR	AFMC/ESC	JAN 97	MAR 99	200	21		
	FY98	ARMY/UNKNOWN	C/FFP/MIPR	AFMC/ESC	MAY 98	NOV 99	223	27	YES	MAY 97
4. SHF TERMINALS	FY99	ARMY/UNKNOWN	OPT/FFP/MIPR	AFMC/ESC	NOV 98	JAN 99	VAR	N/A	YES	JUL 97
GMFSC EQUIPMENT	FY96	ARMY/MULTIPLE	C/FFP/MIPR	AFMC/ESC	MULTI 10	MULTI 10	VAR 11	N/A <sup>4</sup>		
	FY97	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI 10	MULTI 10	VAR 11	N/A <sup>4</sup>	YES	NO
	FY98	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI 10	MULTI 10	VAR 11	N/A <sup>4</sup>	YES	NO
	FY99	ARMY/MULTIPLE	OPT/FFP/MIPR	AFMC/ESC	MULTI 10	MULTI 10	VAR 11	N/A <sup>4</sup>	YES	NO

D. REMARKS DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.	P-1 SHOPP LIST ITEM NO. 70		PAGE NO. 208	Exhibit P-5a Procurement History and Planning	

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT

### C. P-1 ITEM NOMENCLATURE

#### MILSATCOM

LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### JRSC INTERCONNECT FACILITY EQUIP

ARMY/MULTIPLE  
ARMY/MULTIPLE  
ARMY/MULTIPLE  
ARMY/MULTIPLE

C/FFP/MIPR  
OPT/FFP/MIPR  
OPT/FFP/MIPR  
OPT/FFP/MIPR

AFMC/ESC  
AFMC/ESC  
AFMC/ESC  
AFMC/ESC

MULTI 10  
MULTI 10  
MULTI 10  
MULTI 10

MULTI 10  
MULTI 10  
MULTI 10  
MULTI 10

VAR 11  
VAR 11  
VAR 11  
VAR 11

N/A 4  
N/A 4  
N/A 4  
N/A 4

YES  
YES  
YES  
YES

NO  
NO  
NO  
NO

#### SCTS

STANFORD  
TELECOM  
SUNNYVALE, CA

OPT/FFP12

AFMC/ESC

MULTI13

MULTI13

VAR 11

N/A 4

### FOOTNOTES

D. REMARKS  
DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				MILSATCOM						
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. Split award contract.
2. Option to FY93 basic contracts with Raytheon and Rockwell.
3. Multiple award and delivery dates to various options being exercised off the basic FY93 contracts with Rockwell and Raytheon for different equipment.
4. Unit costs vary because several different types of equipment or multiple types of equipment are being procured.
5. Air Force procurement is an option to Army FY96 contract
6. Option to Phase III Small Business Innovative Research (SBIR) contract with VIASAT, Carlsbad, CA.
7. Number of Systems
8. Funding procures initial DAMA controller system equipment consisting of radios and associated equipment to control 5 KHz and 25 KHz channels in each satellite footprint.
9. Funding provides additional channel capacity to bring the four network control sites up to full operating capability based on assigned missions.
10. Multiple award and delivery dates for options awarded to existing Army contracts.
11. Multiple locations.
12. Option to contract with FY93 Stanford Telecommunications contract.
13. Multiple award and delivery dates.

D. REMARKS DUE TO SPACE LIMITATION, THE FOOTNOTES APPEAR AT THE END THIS P-5A.				P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5a Procurement History and Planning			
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				SPACE MODIFICATIONS				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT											
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (In Mil)	31.507	23.378	18.932	6.035	1.318	4.590	4.714	4.788			

Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for the ground equipment segment of Space systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY96-FY99 are on-going or planned for the following seven systems: Air Force Satellite Control Network (AFSCN), Defense Meteorological Satellite Program (DMSP), NAVSTAR Global Positioning System (GPS), Defense Support Program (DSP) 496L Spacetrack Network, and 474N Sea Launched Ballistic Missile (SLBM), Detection and Warning System. The amounts budgeted in FY96-99 for Miscellaneous Low Cost Modifications satisfy historically unforeseen modifications; no single effort is greater in cost than \$.500M. Details follow by system: (\$ in millions)

1. The **AIR FORCE SATELLITE CONTROL NETWORK (AFSCN)** mission is to provide telemetry, tracking and commanding, mission data dissemination, and data processing support for operational and research, development, test and evaluation (RDT&E) systems for the DOD and other high priority users. The AFSCN consists of dedicated systems, a Common User Element (CUE) and supporting resources from external agencies. The dedicated systems include Defense Meteorological Satellite Program (DMSP), Global Positioning System (GPS), and Military Satellite Communications (MILSATCOM). The CUE consists of two control nodes and a worldwide network of remote ground facilities. The supporting resources include the AFSCN communications system, National Aeronautics and Space Administration interface equipment, and user resources at various command and control centers.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
S408930	HTS MICROWAVE REPLACEMENT			0.716		
MISC	MISCELLANEOUS LOW COST MODS	0.300	0.022			0.199
		0.300	0.022	0.716		0.199

2. The **DEFENSE METEOROLOGICAL SATELLITE PROGRAM (DMSP)** joint service mission is to provide an enduring and survivable capability through all levels of conflict consistent with the survivability of the supported forces to collect and disseminate global visible and infrared cloud imagery and other specialized meteorological, oceanographic and solar-geophysical data to support worldwide DOD operations and high-priority programs. Timely, high quality data is supplied to Air Force Global Weather Central, the Fleet Numerical Oceanography Center, and to deployed fixed and mobile ground and ship-based tactical data receipt and processing terminals worldwide. The three major components involved in DMSP operations are the space segment, command, control, and communications (C3) segment, and user segment. The C3 command centers are Fairchild Satellite Operations Center (FSOC), Spokane, WA and multi-purpose Satellite Operations Center (MPSOC), Offutt, AFB NE.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE			
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Mil)						

## DMSP MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
39606B	5D-3/10 KBS COMMANDING MOD	9.234	0.200			
T7149	VANDENBERG ENHANCEMENT MOD	4.000				
T7191	DATA INGEST PROCESSING (DIPS)			2.800		0.200
MISC	MISCELLANEOUS LOW COST MODS	2.704		0.640		0.198
	TOTAL	11.938	4.200	3.440		0.398

3. The **NAVSTAR GLOBAL POSITIONING SYSTEM (GPS)** is a space-based radio navigation, time distribution, and nuclear detonation (NUDET) detection system (NDS). The GPS mission is to provide highly accurate positioning, velocity, timing, and NUDET information to properly equipped air, land, sea, and space-based users.

a. The NAVSTAR GPS/NDS system contains four elements: The Space Segment (SS), the Operational Control Segment (OCS), the Navigation User Segment (NUS), and the NUDET Detection Segment (NDS). The OCS consists of a number of monitor stations (MS) and ground antennas (GA) located around the world, and one Pre-launch Compatibility Station (PCS). The monitor stations use a GPS receiver to passively track all satellites in view and thus accumulate ranging data from the satellite signals. The information from the monitor stations is then processed at the Master Control Station (MCS) and is used to update the navigation message of each satellite. This updated information is transmitted to the space vehicles (SV) via the ground antennae using an S-Band data signal. The ground antennas are also used for transmitting and receiving satellite telemetry and control information. The PCS is used to perform pre-launch testing on Block II SV.

b. The GPS NDS consists of user equipment (UE) sets, test instrumentation and peculiar support equipment (PSE). The UE set, utilizing the data transmitted by the satellites, will derive navigation and time information for use in the host vehicle.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			SPACE MODIFICATIONS			
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
COST (In Mil)						

## GPS MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
30724B	STATION COMPUTER SYS-SERIES 1		6.601	9.483	3.797	
30730B	CAPE MONITOR STATION UPGRADE	2.100				
S605133	WEAPON SYSTEM SUPPORT				1.500	1.200
T7215	MONITORING STATION TIMING				1.300	2.000
T7245	AUTO ANTENNA POSITIONING SYS				0.500	0.600
MISC	MISCELLANEOUS LOW COST MOD		0.100	0.200	0.151	0.380
	TOTAL	2.100	6.701	9.683	7.248	4.180

4. The DEFENSE SUPPORT PROGRAM (DSP) system provides a space-based surveillance system to detect and report missile and space launches and nuclear detonations in near real time during pre-, trans-, and post-attack periods. The DSP system consists of a constellation of satellites in geostationary orbits, fixed and mobile ground processing stations, one multi-purpose facility, and a ground communications network (GCN). DSP's primary mission is to provide tactical warning and limited attack assessment of a ballistic missile attack. DSP also detects and reports nuclear detonation events and provides information for theater warning and exploitation. Modifications in this program apply only to the ground stations.

## DSP MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
T7155	MGT/JRSCT FIBER OPTIC-INTERFACE		0.920	0.080		
T7159	AN/MSQ-118 & 120 TRACTOR REPLACEMENT		1.526	0.120		
MISC	MISCELLANEOUS LOW COST MOD		0.081	0.250		
	TOTAL		2.527	0.450		

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE				SPACE MODIFICATIONS			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT										
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (in Mil)										

5. The 496L SPACETRACK NETWORK is comprised of the AN/FSQ-114 (Ground-based Electro-Optical Deep Space Surveillance System (GEODSS)) Optical Sensor System, the AN/FPS-85 Phased Array Radar (Eglin), the AN/FPS-17 and AN/FPS-79 Mechanical Detection and Tracking Radars (Pirincik). The SPACETRACK systems provide data on near-earth and deep space objects to constantly update the Cheyenne Mountain Complex satellite catalog which performs early warning and tracking of potential threats to North America, and assessment and characterization of potential atmospheric, ballistic missile and space attacks.

a. AN/FPS-85 EGLIN RADAR: The AN/FPS-85 radar, located at Eglin AFB FL, is a computer controlled, phased-array radar that was deployed in 1967 for detection and tracking of space objects. Within its coverage area, this radar is tasked to provide data on known and unknown space objects to the Space Control Center (SCC) at the Cheyenne Mountain Complex at Colorado Springs, CO and the alternate SCC at Dahlgren, VA.

b. AN/FSQ-114 GROUND-BASED ELECTRO-OPTICAL DEEP SPACE SURVEILLANCE (GEODSS) SYSTEM: GEODSS is a segment of the SPACETRACK Network which provides metric track data, deep-space Space Object Identification (SOI), and visible light photometry data to the Cheyenne Mountain Complex (CMC). More specifically, the primary mission of GEODSS is to provide the Space Surveillance Center (SSC) with observational (metric) data on deep-space satellites and optical characteristics information as tasked by the Combined Space Intelligence Center. GEODSS also supports command mission responsibilities for cataloging and maintenance of deep-space satellite payloads and debris, New Foreign Launch (NFL) orbit determination and mission assessment, as well as collision avoidance taskings.

## SPACETRACK MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
19303B	EGLIN TRANSMITTER MODULE UPGR	9.760	10.841	0.300	6.023	0.740
39709B	GEODSS	13.141	5.622	3.600		
39710B	AN/FPS-85 COHERENT RX SYS MOD	3.000	0.491	4.200	0.100	
	MOD DECK REPLACEMENT		0.698			
MISC	MISCELLANEOUS LOW COST MODS		0.025	0.989	0.154	0.195
	TOTAL	25.901	17.677	9.089	6.277	0.935

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		SPACE MODIFICATIONS			
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY					
COST (In Mil)					

FEBRUARY 1997

6. The 474N Sea Launched Ballistic Missile (SLBM) Detection and Warning System consists of the AN/FSQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS) and the AN/FPS-123 Pave Paws System. The primary mission is to provide the Cheyenne Mountain Complex (CMC) with credible Tactical Warning/Attack Assessment (TW/AA) data on all SLBMs penetrating the coverage area. This data includes an estimation of launch and impact locations and times. The secondary mission is to provide the CMC and other users with TW/AA data on Inter-Continental Ballistic Missiles (ICBMs) penetrating the coverage area. Additionally, Pave Paws and PARCS support the Space Surveillance Network by providing space vehicle surveillance, tracking and identification as required by the Space Surveillance Center and the Joint Space Intelligence Center. The sensors have an operational availability requirement of 98 percent.

a. AN/FPS-123 Pave Paws is a ground-based phased array radar system consisting of four dual-faced, solid state phased array surveillance and tracking radar systems. The first two sensors were completed at Cape Cod AS, MA (Site 1) and Beale AFB, CA (Site II) in the late 1970s. Pave Paws was expanded in the late 1980s to include sensors at Robins AFB, GA (Site III) and Eldorado AS, TX (Site IV). The primary mission of Pave Paws is to furnish detection and attack assessment of SLBMs and ICBMs penetrating their coverage area. A secondary mission is supporting the US Space Command (USSPACECOM) Space Surveillance Network (SSN). The AN/FPS-123 supplies space surveillance, tracking and Space Object Identification (SOI) data.

b. AN/FSQ-16 Perimeter Acquisition Radar Attack Characterization System (PARCS): The AN/FSQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system at Cavalier AFB, ND. PARCS is a single faced, long range phased array radar. PARCS's primary mission is to provide tactical warning and assessment of SLBM and ICBM attack against North America. PARCS is a one-of-a-kind system originally developed in the early 1970s and has operated continuously without significant upgrade since 1974.

## SLBM MODIFICATIONS:

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
39707B	PARCS PERIPHERAL REPLACEMENT	4.725	0.305			
P7258	DISPERSIVE DELAY LINES				1.800	
P7260	DATA TRANS CONTROLLER				3.500	
MISC	MISCELLANEOUS LOW COST MODS		0.075		0.107	0.323
	TOTAL	4.725	0.380		5.407	0.323

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EXHIBIT P-3N

FEBRUARY 1997

## MODIFICATION INSTALLATION SUMMARY

Mod # (TOA, Dollars in Millions)  
Title

System/Modification: Space

Air Force Satellite Control Network (AFSCN)

PY FY96 FY97 FY98 FY99 FY00

S408930 HTS Microwave Link Replacement

AFSCN TOTAL

0.3  
0.3

Defense Meteorological Sat Pgrm (DMSP)

39606B 5D-3/10 KBS Commanding Mod  
T-7149 Vandenberg Tracking Station Enhancement  
T-7191 Data Ingest Processing (DIPS)

DMSP TOTAL

0.2  
0.2  
0.4  
0.2  
0.2

Navstar Global Positioning System (GPS)

30724B Station Computer System (Series 1) Replacement  
30730B Cape Monitor Station  
S605133 Weapon System Support  
7215 Monitor Station Timing Enhancement  
7245 Automated Antenna Positioner Monitoring System

GPS TOTAL

0.1  
0.3  
0.1  
0.1  
0.4  
0.2  
0.7  
\* Less Than \$50K

Defense Support Program (DSP)

T-7155 MGT Jam Secure Comm Terminal Fiber Optic Interface

DSP TOTAL

\*  
\*  
\*  
\* Less Than \$50K  
\* Less Than \$50K

Spacetrack

19303B Eglin Transmitter Module Upgrade  
39709B AN/FSQ-114 GEODSS Upgrade  
39710B AN/FPS-85 Coherent Receiver

SPACETRACK TOTAL

0.1  
0.3  
0.4  
0.5  
0.1  
0.7  
0.8  
0.7

SLBM Radar Warning System

39707B PARCS Peripheral Replacement  
P7258 Dispersive Delay Lines  
P7260 Data Trans Lines

SLBM RADAR WARNING SYSTEM TOTAL

0.3  
0.1  
0.4  
0.5

SPACE MODIFICATIONS GRAND TOTAL

0.5  
0.9\*  
1.0\*  
1.7  
1.6  
\* Less Than \$50K

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Weapon System Support (WSS), S605133

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: This modification upgrades the Weapon System Support environment to be compatible with the new architecture of operational system. This modification is required to maintain the existing WSS mission as the support environment for the Operational Control Segment (OCS) and includes support for the GPS High Fidelity System Simulator. This upgrade integrates the new architecture capabilities with the existing legacy systems capabilities in FY98 and provides for disposal of obsolete systems at the end of FY99. This effort will also connect Peterson AFB support system with the Falcon AFB in a unified approach. The effort is phased concurrent with the GPS High Fidelity System Simulator effort to provide initial capability in FY98 and full capability in FY99.

Development Status/Major Development Milestones: AFSPC CCB Mar 96, Simulator Support NLT Jul 98, Maintenance Support NLT Jul 99.

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY96	Qty	Cost	FY97	Qty	Cost	FY98	Qty	Cost	FY99	Qty	Cost	FY00	Qty	Cost	TOTAL
----------------------------------	----	-----	------	------	-----	------	------	-----	------	------	-----	------	------	-----	------	------	-----	------	-------

RDT&E:

PROCUREMENT:

Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment																			
Equipment Nonrecurring																			
Engineering Change Orders																			
Data																			
Training Equipment																			
Support Equipment																			
Other																			
Interim Contractor Support																			
Installation of Hardware																			
(PY) Eqpt ( Kits)																			
(FY96) Eqpt ( Kits)																			
(FY97) Eqpt ( Kits)																			
(FY98) Eqpt (1 Kits)																			
(FY99) Eqpt (1 Kits)																			
(FY00) Eqpt ( Kits)																			
(FY01) Eqpt ( Kits)																			
(FY02) Eqpt ( Kits)																			
Total Installation Cost	0																		
Total Procurement Cost	0																		

Method of Implementation: Contractor																			
Contract Dates: FY96:																			
Delivery Date: FY96:																			
Installation Schedule:																			
PY																			
Input	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4			
Output		1				1													

Production Lead Time: 3 Months

Administrative Lead Time: 3 Months

FY98: Dec 97  
FY98: Mar 98  
FY99: Dec 98  
FY99: Mar 99  
FY00:  
FY00:



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EXHIBIT F3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: GPS Automated Antenna Positioner Monitoring System, Mod # 7245

Models of Systems Affected: Space - NAVSTAR Global Positioning System (GPS)

Description/Justification: The GPS Automated Positioner Monitor Station Timing (AAPMS) consists of a data collection and logging module attached to the Ground Antenna pedestal unit. The proposed system would consist of a single board computer system and support circuitry within a module permanently affixed inside the Ground Antenna system pedestal area. Data collection, system control and test software will reside on the control computer. This system will help diagnose problems automatically within the Ground Antenna system as well as achieving and using trending data to predict potential performance problems.

Development Status/Major Development Milestones: AFSPC CCB: Jun 97

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY96	Qty	Cost	FY97	Qty	Cost	FY98	Qty	Cost	FY99	Qty	Cost	FY00	Qty	Cost	TOTAL	Qty	Cost
RDT&E:																					
PROCUREMENT:																					
Kit Quantity																					
Installation Kits																					
Installation Kit Nonrecurring																					
Equipment																					
Equipment Nonrecurring																					
Engineering Change Orders																					
Data																					
Training Equipment																					
Support Equipment																					
Other																					
Interim Contractor Support																					
Installation of Hardware																					
(PY) Eqp ( Kits)																					
(FY96) Eqp ( Kits)																					
(FY97) Eqp ( Kits)																					
(FY98) Eqp ( 1 Kits)																					
(FY99) Eqp ( 4 Kits)																					
(FY00) Eqp ( Kits)																					
(FY01) Eqp ( Kits)																					
(FY02) Eqp ( Kits)																					
Total Installation Cost																					
Total Procurement Cost																					

Method of Implementation: Contractor																					
Contract Dates: FY96:																					
Delivery Date: FY96:																					
Installation Schedule:																					
PY																					
Input																					
Output																					

Administrative Lead Time: 3 Months																					
FY98: Jan 98																					
FY98: Oct 98																					
FY99: Nov 98																					
FY99: Aug 99																					
FY00:																					
FY00:																					
Production Lead Time: 9 Months																					
TOTAL																					

UNCLASSIFIED  
EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

Modification Title and No: Eglon Transmitter Module Upgrade , 19303B

Models of Systems Affected: Spacetrack - AN/FPS-85

Description/Justification: The transmitter upgrade replaces the Insuperable 1960's vintage vacuum tube components within the transmitters with commercially available and supportable components. Failure to complete this effort will prevent the site from operating because of diminishing sources for critical components within the transmitters. The Eglon AFB, FL mission is vital to AFSPC as it presently is responsible for updating information on the majority of Space Objects Catalog (SOC) items by providing current track information on known objects and detecting unknown objects within its coverage area of surveillance. Without the Eglon updates, the SOC will become inaccurate preventing proper mission planning for all space launches because collision avoidance cannot be properly calculated. Failure to maintain the SOC will put space vehicles, such as the Space Shuttle and military satellites, in jeopardy of damage or destruction through collision with space debris.

Development Status/Major Development Milestones: Milestone IV, CCB: Oct 95, 1st Article Test: Jun 96; Field Test: Sep 96; FOC Sep 99

Financial Plan: (\$ in Millions)		FY96		FY97		FY98		FY99		FY00		TOTAL	
PV	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	
RDT&E:													
Procurement													
Kit Quantity													
Installation Kits													
Installation Kit Nonrecurring	4	6.0	7	10.5		5	5.1				16	21.6	
Equipment													
Equipment Nonrecurring													
Engineering Change Orders													
Data		0.3										0.3	
Training Equipment													
Support Equipment		0.2										0.2	
Other		3.3		0.2			0.2					3.7	
Interim Contractor Support													
Installation of Hardware													
(PY) Eqt (4 Kits)			1	0.1	2	0.3	1	0.1			4	0.5	
(FY96) Eqt (7 Kits)							7	0.6			9	0.9	
(FY97) Eqt (Kits)									5	0.7	3	0.4	
(FY98) Eqt (5 Kits)													
(FY99) Eqt (Kits)													
(FY00) Eqt (Kits)													
(FY01) Eqt (Kits)													
(FY00) Eqt (Kits)													
Total Installation Cost	4	9.8	7	10.8	2	0.3	8	0.7	5	0.7	16	1.8	
Total Procurement Cost											16	27.6	
Method of Implementation: Contractor													
Contract Dates:		FY95: Mar 96		FY96: Mar 96		FY97: Mar 97		FY98: Oct 97		FY99: Oct 97		Production	
Delivery Date:		FY95: Sep 96		FY96: Feb 98		FY97: Feb 97		FY98: Dec 98		FY99: Dec 98			
Installation Schedule:													
PV		1	2	3	4	1	2	3	4	1	2	3	4
Input						1			2	1	3	2	2
Output							1		2	1	3	2	2

Production Lead Time: 7 Months

FY98: Oct 97  
FY98: Dec 98

Administrative Lead Time: 6 Months

FY97:  
FY97:

FY96: Mar 96  
FY96: Feb 98

FY95: Mar 96  
FY95: Sep 96



Modification Title and No: AN/FPF-85 Coherent Receiver System Modernization, 39710B

Models of Systems Affected: AN/ FPS-85 Radar

Description/Justification: The coherent receiver modification will replace the existing receiver and pulse compression chamber with state-of-the-art equipment. The current system is the source of daily failures and is difficult to maintain. The new equipment will require little or no calibration and will be more reliable, supportable, and easier to maintain. This mod will increase the site's operational capability by decreasing the amount of maintenance time required to keep the coherent receiver stable. The Eglin mission is vital to AFSPC as it presently is responsible for updating information objects by providing current track information on the majority of the Space Object Catalog (SOC) known objects and detecting unknown objects within its area of surveillance. Without Eglin updates, the SOC will become inaccurate, preventing proper mission planning for all space launches because collision evidence cannot be properly calculated. Current objects in space which Eglin is responsible for include maneuverable satellites gathering military data which can compromise security of our military defenses if the object were to maneuver when Eglin is down for maintenance.

Development Status/Major Development Milestones: Revised Acq Strat: Apr 96, CCB: Jun 96, PDR: Nov 96, CDR: Mar 97, IOC Mar 98

Financial Plan: (\$ in Millions)		PY	Qty	Cost	FY96	Qty	Cost	FY97	Qty	Cost	FY98	Qty	Cost	FY99	Qty	Cost	TOTAL	Qty	Cost
RDT&E:																			
Procurement																			
Kit Quantity																			
Installation Kits																			
Installation Kit Nonrecurring																			
Equipment		1		1.0				1		0.5							2		1.5
Equipment Nonrecurring										0.5									0.5
Engineering Change Orders																			
Data																			0.3
Training Equipment																			
Support Equipment																			
Other				1.5						3.4									4.9
Interim Contractor Support																			
Installation of Hardware		1		0.5													1		0.5
(PY) Ept (1 Kts)																			
(FY96) Ept ( Kts)																			
(FY97) Ept (1 Kts)																	1		0.1
(FY98) Ept ( Kts)																			
(FY99) Ept ( Kts)																			
(FY00) Ept ( Kts)																			
(FY01) Ept ( Kts)																			
(FY02) Ept ( Kts)																			
Total Installation Cost		1		0.5													2		0.6
Total Procurement Cost		1		3.0						0.5							2		7.8
Method of Implementation: Contractor																			
Contract D PY: Apr 95																			
Delivery D PY: Dec 97																			
Installation Schedule:		PY		1		2		3		4		1		2		3		4	
Input		1																	
Output		1																	
TOTAL																			

Production Lead Time: 12 Months

Administrative Lead Time: 2 Months

Modification Title and No: PARCS Dispersive Delay Line (DDL) P-7258

Models of Systems Affected: PARCS, AN/FPQ-16

Description/Justification: The PARCS Dispersive Delay Line (DDL) modification will replace signal processing elements in the PARCS radar, which are no longer supportable with modern devices that are stable, reliable, and supportable. The DDLs are essential to radar operation and only one serviceable spare is available. Attempts at DDL repair has not yielded long term success. When a DDL of the current design is replaced, the radar signal processor must be realigned, a process that requires 12 or more hours to complete. PARCS provides major contributions to the Integrated Tactical Warning and Attack Assessment (ITW/AA) mission. Failure of a DDL would result in a long period of time when the radar would be unable to detect and track threats to the North American continent in support of USSPC/NORAD CINC. PARCS is a single faced, long range phased array radar. It is a one of a kind system developed in the early 1970's and has operated continuously without significant upgrade since 1974.

Development Status/Major Development Milestones: CCB: May 97, Contract AWD: Jan98, PDR/CDR: Apr 98, OT&E: Nov 98, IOC/FOC: Feb 98

Financial Plan: (\$ in Millions)	PY	Cost	FY96	FY97	FY98	FY99	FY00	TOTAL	Cost
Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Qty	Cost

RDT&E:

PROCUREMENT:

Kit Quantity									
Installation Kits									
Installation Kit Nonrecurring									
Equipment									
Equipment Nonrecurring									
Engineering Change Orders									
Data									
Training Equipment									
Support Equipment									
Other									
Interim Contractor Support									
Installation of Hardware									
(PY) Ept ( Kits)									
(FY96) Ept ( Kits)									
(FY97) Ept ( Kits)									
(FY98) Ept (1 Kits)									
(FY99) Ept ( Kits)									
(FY00) Ept ( Kits)									
(FY01) Ept ( Kits)									
(FY02) Ept ( Kits)									
Total Installation Cost									
Total Procurement Cost									

Method of Implementation: Contractor

Contract Dates: FY96:

Delivery Date: FY96:

FY97: Jan 98  
FY97: Feb 99

Administrative Lead Time: 4 Months  
FY99:  
FY99:

Production Lead Time: 14 Months  
FY00:  
FY00:

Installation Schedule:	PY	FY98	FY99	FY00	TOTAL
Input	1	2	2	2	4
Output					1

Modification Title and No: Perimeter Acquisition Radar Attack Characterization System (PARCS) Data Transmission Controller (DTC) Upgrade P-7260

Models of Systems Affected: PARCS, AN/FPQ-16

Description/Justification: The PARCS Data Transmission Controller Upgrade is a Reliability and Maintainability effort to replace obsolete and insupportable equipment in the communications link with the main mission computer and external users. The DTC controls all communications of Missile Warning message traffic to Cheyenne Mountain and SpaceTrack message traffic to Dahlgren and Cheyenne Mountain Complex (CMC). PARCS provides major contributions to the Integrated Tactical Warning and Attack Assessment (TW/AA) mission. Failure to implement this modification would endanger the site's ability to acknowledge threats to the North American continent in support of USSPACECOM/NORAD CINC and to notify the National Command Authorities for appropriate tactical assessment and response. The AN/FPQ-16 radar sensor and the AN/FSQ-100 Data Processing System (DPS) are the two major subsystems which comprise the PARCS system at Cavalier ND. PARCS is a single faced, long range phased array radar. It is a one of a kind system developed in the early 1970's and has operated continuously without significant upgrade since 1974.

Development Status/Major Development Milestones: Milestone IV, CCB: May 97, Task Award: Jan 98, PDR/CDR: Mar 98, OT&E: Oct 98, IOC: Jan 99

Financial Plan: (\$ in Millions)	PY	Cost	Qty	FY96	Cost	Qty	FY97	Cost	Qty	FY98	Cost	Qty	FY99	Cost	Qty	TOTAL	Cost
----------------------------------	----	------	-----	------	------	-----	------	------	-----	------	------	-----	------	------	-----	-------	------

RDT&E:

PROCUREMENT:

Kit Quantity																	
Installation Kits																	
Installation Kit Nonrecurring																	
Equipment																	
Equipment Nonrecurring																	
Engineering Change Orders																	
Data																	
Training Equipment																	
Support Equipment																	
Other																	
Interim Contractor Support																	
Installation of Hardware																	
(FY) Eqt ( Kits)																	
(FY96) Eqt ( Kits)																	
(FY97) Eqt (1 Kits)																	
(FY98) Eqt (1 Kits)																	
(FY99) Eqt ( Kits)																	
(FY00) Eqt ( Kits)																	
(FY01) Eqt ( Kits)																	
(FY02) Eqt ( Kits)																	
Total Installation Cost																	
Total Procurement Cost																	

Method of Implementation: Contractor

Contract Dates: FY96:

Delivery Date: FY96:

FY97:

FY98:

FY99:

FY00:

FY01:

FY02:

FY03:

FY04:

FY05:

FY06:

FY07:

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FY16:

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		TACTICAL C-E EQUIPMENT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	29.054	63.982	16.968	31.922	31.707	39.764	43.795	43.237

The Tactical Communications-Electronics (C-E) Equipment procurement line acquires essential command, control, communications and computer (C4) systems to satisfy requirements for Pacific Air Forces (PACAF), United States Air Forces Europe (USAFE), Air Mobility Command (AMC), Air Force Special Operations Command (AFSOC), Air Combat Command (ACC), and the Air National Guard (ANG). These funds also replace or upgrade logistically unsupportable communications systems fielded in our Theater Air Control System (TACS) and combat communications units, and procure the next generation of lightweight tactical communications equipment that will support US flying operations worldwide.

1. **PACER SPEAK (AN/GRC-206):** The PACER SPEAK is an equipment upgrade program designed around a common transmitter and receiver (RT-1319). The PACER SPEAK is a pallet of radios mounted on a HMMWV vehicle which is used primarily by the ACC Theater Air Control Parties (TACPs) and AFSOC Combat Control Teams (CCTs). Both types of units deploy with the Army's maneuver units and provide the command and control link for Close Air Support (CAS), airlift, and reconnaissance. The current PACER SPEAK system configuration operates in several frequency bands including: High Frequency (HF), Very High Frequency/ Amplitude Modulation (VHF/AM), and Ultra High Frequency/Amplitude Modulation (UHF/AM) utilizing the HAVE QUICK Waveform. The Version 5 (V(5)) upgrade to PACER SPEAK started in FY94, with a current projected requirement for 893 systems. The V(5) upgrade replaces the single channel VHF radio with the SINGGARS VHF Antijam Frequency Hopping radio currently used by Army maneuver units, thus assuring critical Air Force interoperability with these units, and reducing the probability of fratricide. 270 V(5) systems were procured in FY94-95. The following V(5) quantities are planned for procurement: (159) FY96, (130) FY97, (41) FY98, and (46) FY99.

2. **THEATER DEPLOYABLE COMMUNICATIONS (TDC) PROGRAM:** The TDC program provides telephone and computer networks, and message service to deploying Air Force and joint units. It was started in FY92 to replace the existing Tri-service Tactical Communications (TRI-TAC) system. TRI-TAC showed its age during Desert Storm (as documented in the "Hot Wash" reports), lacking sufficient bandwidth to support current communications technology such as Local Area Networks (LANs), video teleconferencing and timely transmission of Air Tasking Order (ATO) and intelligence imagery. In addition, TRI-TAC consumes a large amount of critical airlift resources due to its size and packaging. TDC corrects these deficiencies providing a large increase in throughput capacity and better bandwidth efficiency, as well as a 20-35% reduction in airlift requirements. TDC will procure 90's technology Commercial-Off-the-Shelf (COTS) equipment. As such, it is fully compliant with existing and emerging commercial interoperability standards in accordance with Office of Secretary of Defense (OSD) interoperability guidelines.

TDC will support a wide range of mission areas and users including: Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), Air Force Special Operation Command (AFSOC), Air National Guard (ANG), and the Air Force Reserves (AFR). For both AMC and AFSOC, TDC provides new combat capability not previously available. TDC is required to support the Air Expeditionary Force. In addition,

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

TDC is capable of supporting joint operations through its link into the joint tactical communications architecture. TDC is also critical to the successful implementation of the Global Broadcast Service--TDC computer servers will be used to support most GBS ground terminals. TDC is composed of two components, the Lightweight Multiband Satellite Terminal (LMST) and the Integrated Communications Access Packages (ICAP). Together these two systems provide the communications infrastructure in deployed base environments. TDC connects all users, both at the base level and back to the national command authorities using various C4 and intelligence (C4I) applications and the Tactical Internet. TDC will equip Wing Initial Communication Packages (WICPs), Air Operations Centers (AOC), Air Support Operations Centers (ASOCs) and Control Reporting Centers/Elements (CRCs/CREs). TDC is modular, and scaleable--capable of supporting the war effort from day one to the buildup of a sustaining base.

TDC is currently funded at 48% of requirement, which will support 80% of one Major Regional Conflict (MRC).

a. **LIGHTWEIGHT MULTIBAND AND SATELLITE TERMINALS (LMSTs):** LMSTs will augment and in most cases replace the existing X-Band tactical satellite terminals. LMSTs provide a significant increase in capability, capable of leveraging not only the military X-band satellite channels, but also the C- and Ku-bands available on commercial communications satellites. This alleviates many operational problems, since the military X-band channels are nearing capacity. LMSTs are a critical link providing the two-way communications connectivity between the deployed base and command authorities at other locations. The LMST significantly reduces airlift, requiring just 25% of a C-130 load versus a full C-130 load to move the terminal it replaces. Total requirements for LMSTs are 79 systems for all MAJCOMs. Six LMSTs were procured in FY96; FY97/98/99 funds procure 6, 3, and 7, respectively.

b. **INTEGRATED COMMUNICATIONS ACCESS PACKAGES (ICAPs):** ICAP provides modular and scaleable packages of routers, switches, multiplexers and network management systems, forming the communications backbone for a deployed base. Users will plug-in their computer, telephones, and faxes into the backbone the ICAP supplies. ICAP provides significant advantages over TRI-TAC in the areas of bandwidth efficiency, scalability, and airlift.

- ICAP employs "smart multiplexers" allowing sequencing of several messages over a single line, versus the multiple dedicated lines used in TRI-TAC.  
 - ICAP packages come in seven configuration sizes, allowing greater flexibility to meet different contingency operations. For example, the WICP is the smallest sized unit (1 C-130 load) designed to provide an immediate communications capability during the initial phase of deployment. As subsequent airlift becomes available, additional packages can be "added," scaling up to a full size AOC package. The TRI-TAC system lacks this flexibility, requiring a large portion of the system (6-7 C-130 loads) to be in place before the system becomes operational.

Total requirements for ICAPs are 139 systems for all MAJCOMs. FY96/97/98/99 funds procure 2, 19, 3, and 6, respectively.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE TACTICAL C-E EQUIPMENT					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)								

3. **CIVIL ENGINEERING COMMAND AND CONTROL SYSTEM (CECCS):** The CECCS provides base support group command and recovery elements (Civil Engineers, Fire Protection, Disaster Preparedness, and Ordnance Disposal) a capability to respond to emergencies and manage base recovery efforts. This capability requires a reliable, tactical, deployable, and programmable media to conduct operations at designated locations supporting two near-simultaneous major regional conflict scenarios and military operations other than war addressed in the Defense Planning Guidance. This system will consist of the following hardware items packaged in Prime Base Emergency Engineer Force (BEEF) unit type codes (UTCs): Scope Shield radios, battery chargers, battery reconditioners, vehicle adapters, base stations, programming units, tactical repeaters, and cloning cables. FY96 funds procured 111 radios, 91 vehicle adapters, 50 tactical repeaters, and 5 base stations.

4. **ANG/AFR:** The following quantities of PACER SPEAK terminals will be procured:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	23		3,487	0		0
FY97	23		1,500	0		0
FY98	0		0	0		0
FY99	0		0	0		0

The following quantities of TDC will be procured; quantities of LMST and ICAP units are "VAR" since ICAP packages come in seven configurations:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	0		0	0		0
FY97	VAR		25,000	0		0
FY98	0		0	0		0
FY99	0		0	0		0

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			See Manufacturing Information on P-5A		FEBRUARY 1997
OPA/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		TACTICAL C-E EQUIPMENT								
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998		
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. PACER SPEAK		VAR	N/A	(8,211)	130	(64.9)	(8,437)	41	(88.4)	(3,625)	46	(83.6)	(3,844)
a. SINGGARS/ANDVT (V5) UPGRADE	A	159	45.4	7,211	130	64.9	8,437	41	88.4	3,625	46	83.6	3,844
b. DEPOT TEST SETS	A	VAR	N/A	1,000									
2. TDC PROGRAM		VAR	N/A	(15,972)	VAR	N/A	(55,545)	VAR	N/A	(13,343)	VAR	N/A	(28,078)
a. LMST	A	6	1,095	6,567	6	1,000	6,000	3	1,000	3,000	7	1,000	7,000
b. ICAP	A	2	VAR	9,405	19	VAR	49,545	3	VAR	10,343	6	VAR	21,078
3. CECCS	A	VAR	VAR	4,871									
TOTAL				29,054			63,982			16,968			31,922

P-1 SHOPP LIST ITEM NO. 72		PAGE NO. 231	Exhibit P-5 Weapon System Cost Analysis
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				TACTICAL C-E EQUIPMENT							
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### 1. PACER SPEAK (AN/GRC-206)

#### A. SINGARS/ANDVT (V5) UPGRADE

FY96	HUGHES FT WAYNE, IN	OPT/FFP 1	AFMC/ESC	FEB 96	APR 97	159	45.4			
FY97	HUGHES FT WAYNE, IN	OPT/FFP 1	AFMC/ESC	MAR 97	DEC 97	130	64.9	YES	NO	
FY98	HUGHES FT WAYNE, IN	SS/FFP	AFMC/ESC	JAN 98	JAN 99	41 <sup>4</sup>	88.4	YES	NO	
FY99	HUGHES FT WAYNE, IN	SS/FFP	AFMC/ESC	JAN 99	JAN 00	46 <sup>4</sup>	83.6	YES	NO	
B. DEPOT TEST SETS										
FY96	HUGHES FT WAYNE, IN	OPT/FFP 1	AFMC/ESC	NOV 96	MAY 97	VAR	N/A <sup>2</sup>			
2. TDC PROGRAM										
A. LMST	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR <sup>6</sup>	AFMC/ESC	JAN 97	SEP 97	6	1,095			

### D. REMARKS

- OPTION TO FY95 SINGARS/ANDVT INTEGRATION CONTRACT WITH MAGNAVOX.
- UNIT COST VARIES BECAUSE SIZING/COMPOSITION OF PACKAGES DEPENDS ON APPLICATION.
- OPTION TO PRIOR YEAR AIR BASE GROUND DEFENSE PRODUCTION CONTRACT.
- QUANTITIES MAY HAVE TO BE ADJUSTED BASED UPON NEGOTIATED PRICE AT CONTRACT AWARD.
- NON-RECURRING COSTS ARE CPAF; RECURRING COSTS ARE FFP.
- OPTION TO FY95 C/FFP CONTRACT WITH HARRIS CORP, MELBOURNE, FL.

P-1 SHOPP LIST ITEM NO. 72		PAGE NO. 232	Exhibit P-5a Procurement History and Planning
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				TACTICAL C-E EQUIPMENT								
LINE ITEM/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

B. ICAP	FY97	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR	AFMC/ESC	AUG 97	MAY 98	6	1,000	YES	NO		
	FY98	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR	AFMC/ESC	JAN 98	JUL 98	3	1,000	YES	NO		
	FY99	ARMY/CECOM HARRIS CORP MELBOURNE, FL	OPT/MIPR	AFMC/ESC	JAN 99	JUL 99	7	1,000	YES	NO		
B. ICAP	FY96	MOTOROLA SSTG SCOTTSDALE, AZ	C/CPAF <sup>s</sup> FFP	AFMC/ESC	OCT 96	JUN 97	2	N/A <sup>2</sup>				
	FY97	MOTOROLA SSTG SCOTTSDALE, AZ	OPT/CPAF <sup>s</sup> FFP	AFMC/ESC	JUN 97	JUN 98	19	N/A <sup>2</sup>	YES	NO		
	FY98	MOTOROLA SSTG SCOTTSDALE, AZ	OPT/CPAF <sup>s</sup> FFP	AFMC/ESC	FEB 98	FEB 99	3	N/A <sup>2</sup>	YES	NO		
	FY99	MOTOROLA SSTG SCOTTSDALE, AZ	OPT/CPAF <sup>s</sup> FFP	AFMC/ESC	FEB 99	FEB 00	6	N/A <sup>2</sup>	YES	NO		
	FY96	RACAL COMM, INC ROCKVILLE, MD	OPT/FP <sup>3</sup>	AFMC/ESC	APR 96	OCT 96	VAR	N/A <sup>2</sup>				

### D. REMARKS

- OPTION TO FY95 SINGARS/ANDVT INTEGRATION CONTRACT WITH MAGNAVOX.
- UNIT COST VARIES BECAUSE SIZING/COMPOSITION OF PACKAGES DEPENDS ON APPLICATION.
- OPTION TO PRIOR YEAR AIR BASE GROUND DEFENSE PRODUCTION CONTRACT.
- QUANTITIES MAY HAVE TO BE ADJUSTED BASED UPON NEGOTIATED PRICE AT CONTRACT AWARD.
- NON-RECURRING COSTS ARE CPAF; RECURRING COSTS ARE FFP.
- OPTION TO FY95 C/FFP CONTRACT WITH HARRIS CORP, MELBOURNE, FL.

P-1 SHOPP LIST ITEM NO. 72		PAGE NO. 233	Exhibit P-5a Procurement History and Planning
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE COMBAT SURVIVOR/EVERADER LOCATOR RADIO					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	-	2.858	5.731	14.137	14.977	14.859	6.114		6.289

The Combat Survivor/Evader Locator (CSEL) radio will address existing deficiencies in Combat Search and Rescue (CSAR). CSEL will replace existing PRC-90 and PRC-112 survival radios with current and emerging technologies in a new hand-held radio and system to provide enhanced CSAR capabilities. CSEL features include near real-time GPS geospositioning, two-way over-the-horizon data messaging, verification of evader identification and status, low probability of intercept/detection, anti-jam, and the integration of commercial satellite systems capabilities. This program supports all DoD Services with potential to support non-DoD government agencies.

The CSEL program was following a standard new start acquisition path until the June 1995 shutdown, evasion, and eventual recovery of an aircrewman kindled the urgency to develop and acquire an enhanced CSAR capability. In July 1995, the Under Secretary of Defense for Acquisition and Technology USD(A&T) issued a memorandum directing the accelerated development of a CSEL capability. In November 1995, the Vice Chief of Staff/Air Force approved the CSEL operational requirements document and the USD(A&T) approved the overall acquisition strategy. In December 1995, the Secretary of Defense endorsed the CSEL program, including a four-phase plan for CSAR. In February 1996, the Commander, Space and Missile Systems Center announced the contract award of a cost plus award fee contract (Air Force RDT&E funds) for the development of CSEL.

Development of the CSEL radios will take approximately 19 months. Award of the first production option is expected in September 1997 with delivery of the first production units in 2<sup>nd</sup> quarter of FY98. Approximately 24,000 CSEL radios will be purchased by the Air Force. Ultimately, an estimated 40,000+ CSEL radios will be delivered across all Services.

Congress approved reprogramming of \$13.5 million of FY95 RDT&E funds for the FY96 CSEL Engineering and Manufacturing Development (EMD) new start. FY97 RDT&E funding is \$9.2 million for CSEL EMD to support the radio production decision in September 1997. These funds include satellite base station development, Joint Search and Rescue Center hardware development, program support, and test and evaluation. FY98 RDT&E funding in the amount of \$4.3 million will be used to support test and evaluation and to complete EMD of base station and support equipment. Reference Program Element 35176 of the Air Force RDT&E Descriptive Summaries.

FY97 Other Procurement Air Force funding will purchase the first option of 500 CSEL radio units. FY98 and 99 funds continue procurement with the purchase of 1,000 and 2,500 radios respectively.

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME COMBAT SURVIVOR/EVADER LOCATOR (CSEL) RADIO			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT													
Weapon System Cost Elements		FY 1996			FY 1997			FY 1998			FY 1999		
IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

CSEL RADIO	B						(2,858)			(5,731)			(14,137)
CSEL RADIOS					500	5.2762	2,638	1,000	4.4072	4,407	2,500	4.3202	10,800
PROG SPT EQ <sup>1</sup>							220			1,324			3,337
TOTAL							2,858			5,731			14,137

## D. REMARKS

1. PROGRAM SUPPORT EQUIPMENT - CSEL SUPPORT EQUIPMENT, E.G., LOADER ADAPTERS, MISSION PLANNING SOFTWARE, DISCS, CABLES, FLYAWAY CASES, ETC.
2. UNIT COSTS ARE DERIVED FROM OPTION 1, 2, & 3 NOT TO EXCEED (NTE) COSTS PLUS AN ESTIMATED \$150 FOR SPECIFICATION CHANGES. QUANTITIES MAY REQUIRE ADJUSTMENT AFTER NEGOTIATION OF PRODUCTION OPTION.

P-1 SHOPP LIST ITEM NO. 73		PAGE NO. 235	Exhibit P-5 Weapon System Cost Analysis
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		COMBAT SURVIVOR/EVADER LOCATOR (CSEL) RADIO								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

CSEL RADIO	FY97	BOEING formerly ROCKWELL AUTONETICS	OPTION/FFP 1	AFMC/SMC	SEP 97	MAR 98	500	5,276 <sup>2</sup>	NO	YES	JUN 97 <sup>3</sup>
	FY98	BOEING formerly ROCKWELL AUTONETICS	OPTION/FFP 1	AFMC/SMC	JUL 98	SEP 98	1,000	4,407 <sup>2</sup>	NO	YES	JUN 97 <sup>3</sup>
	FY99	BOEING formerly ROCKWELL AUTONETICS Cedar Rapids, IA	OPTION/FFP 1	AFMC/SMC	DEC 98	FEB 99	2,500	4,320 <sup>2</sup>	NO	YES	JUN 97 <sup>3</sup>

D. REMARKS				Exhibit P-5a Procurement History and Planning			
1. OPTION TO FEBRUARY 96 R&D CONTRACT WITH ROCKWELL AUTONETICS				PAGE NO. 236			
2. UNIT COSTS ARE DERIVED FROM OPTION 1, 2, & 3 NOT TO EXCEED (NTE) COSTS PLUS AN ESTIMATED \$150 FOR SPECIFICATION CHANGES. QUANTITIES MAY REQUIRE ADJUSTMENT AFTER NEGOTIATION OF PRODUCTION OPTION.				P-1 SHOPP LIST ITEM NO. 73			
3. DRAFT SPECS AVAILABLE JUN 97; FINAL SPECS AVAILABLE DEC 97.				UNCLASSIFIED			

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FY98/99 PB		P-1 ITEM NOMENCLATURE		CSEL RADIO		FISCAL YEAR 97		FISCAL YEAR 98		DATE: FEBRUARY 1997		FISCAL YEAR 99		LATE R	
ITEM/IFG		PROC		ACPT		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		FISCAL YEAR 99		FISCAL YEAR 99	
PROCUREMENT YEAR		QTY		BAL		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		FISCAL YEAR 99		FISCAL YEAR 99	
S E R V		1-001		1-001		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		FISCAL YEAR 99		FISCAL YEAR 99	
		1-001		1-001		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		FISCAL YEAR 99		FISCAL YEAR 99	
		1-001		1-001		FISCAL YEAR 97		FISCAL YEAR 98		FISCAL YEAR 99		FISCAL YEAR 99		FISCAL YEAR 99	
CSAR RADIOS															
FY97		AF 500		0 500											
		A 0													
		N 0													
FY98		AF 1000		0 1000											
		A 1000		0 1000											
		N 1000		0 1000											
FY99		AF 2500		0 2500											
		A 2500		0 2500											
		N 2500		0 2500											
TOTAL		11000		0 11000											
MANUFACTURER'S NAME AND LOCATION		RE-		CH 0 +											
BOEING NORTH AMERICA		MIN		MAX											
formerly Rockwell Collins		100		2000											
Cedar Rapids, IA		REORDER		(OPTIONS)											
		7		2											
		9		11											
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		PAGE		OF		PAGES									
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FY9899 PR ITEM/MFG PROCUREMENT YEAR	P-1 ITEM NOMENCLATURE										CSEL RADIO				FISCAL YEAR 01				DATE: FEBRUARY 1997				FISCAL YEAR 02												LATE R
											FISCAL YEAR 00												CALENDAR YEAR 02												
											CALENDAR YEAR 00												CALENDAR YEAR 02												
	S E R V	PROD QTY	ACCT PRIOR	BAL DUE	99	99	99	99	99	99	1-Oct	1-Oct	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	
CSAR RADIOS																																			
FY97																																			
AF	500	500	0																																
A	0																																		
N	0																																		
FY98																																			
AF	1000	1000	0																																
A	1000	1000	0																																
N	1000	1000	0																																
FY99																																			
AF	2500	1664	836	209	209	209	209																												
A	2500	1664	836	209	209	209	209																												
N	2500	1664	836	209	209	209	209																												
TOTAL																																			
	11000	8492	2508	627	627	627	627	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0	0
MANUFACTURER'S NAME AND LOCATION																																			
BOEING NORTH AMERICA (formerly Rockwell Collins)																																			
REORDER (OPTIONS)																																			
INITIAL																																			
PR 1 OCT AFT 1 OCT																																			
ADMIN LEAD TIME																																			
MANUFACTURING TIME																																			
TOTAL AFTER 1 OCT																																			
CH 0+																																			
P-1 SHOPPING LIST ITEM NO. 73																																			
PAGE OF PAGES EXHIBIT P-21																																			

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE					
				RADIO EQUIPMENT					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	11,995	10,488	12,844	15,540	13,938	14,756	9,203		4,681

This program upgrades existing or procures new radio equipment for the Air Force. The bulk of Air Force large high frequency (HF) radio stations located around the world are more than 20 years old, costly and increasingly difficult to maintain. In light of a declining support posture, and the move to collocate/close U.S. facilities overseas, the Department of Defense (DoD) HF Mission Area Review (MAR) directed the Services/agencies to reduce and collocate HF resources throughout the world. The Joint Staff tasked the Air Force to be the executive agent for the DoD HF collocation effort.

1. **SCOPE COMMAND HIGH FREQUENCY (HF) RADIO STATION REPLACEMENT:** The SCOPE COMMAND program provides for the modernization of selected high power HF ground radio equipment. This program supports the Mystic Star, United States Air Force Global HF System, Defense Communications Systems (DCS) HF Entry, U.S. Navy HICOM, and other high power HF networks. It also supports war plans and operational requirements for the following organizations: White House Communications Agency (WHCA), Joint Chiefs of Staff (JCS), Defense Information Systems Agency (DISA), Air Mobility Command (AMC), Air Combat Command (ACC), Air Intelligence Agency (AIA), Air Force Space Command (AFSPC), United States Air Forces Europe (USAFE), Pacific Air Forces (PACAF), and Air Reserve and Guard Forces.

The SCOPE COMMAND program is divided into two distinct phases. Phase A procures a limited capability to provide Automatic Link Establishment (ALE) to 14 global ground HF radio stations to meet AMC aircraft modification schedules. Phase A includes all equipment and installation costs to provide this ALE capability. Phase B procures equipment for a full HF capability to satisfy other stated mission requirements. Phase B includes the equipment and installation costs to achieve full operational (full-up) capability over and above the Phase A capability. Other program costs include: (a) Type I factory training; (b) Engineering/Integration for the Centralized Net Control definition; (c) other integration efforts required for a full HF capability; (d) and a training station hardware to provide follow-on operational training.

The SCOPE COMMAND program ultimately upgrades 14 Air Force HF stations and a training facility utilizing commercial-off-the-shelf equipment which postures the Air Force to move to centralized control with unmanned HF radio facilities (lights out). The FY96 funding provided for the remaining Phase A stations (Croughton, UK; Diego Garcia, UK; Thule, Greenland; Yokota, Japan; and Incirlik, Turkey) and for engineering the Centralized Net Control concept. FY97 funding provides for implementation/integration of the Net Control "lights out" capability, engineering for the Centralized Net Control concept, Andrews AFB, MD Phase B station equipment, and Type I training. FY98 funding will provide Phase B equipment and installation at two stations (West Coast, CA and Anderson AFB, Guam), equipment for a training station, engineering/integration costs and continued Type I training. FY99 funding will provide for Phase B equipment and installation at four stations (Lajes, Portugal; Ascension Island, UK; Diego Garcia, UK; and Croughton, UK), and for engineering/integration and training costs.

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# UNCLASSIFIED

## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

DATE

FEBRUARY 1997

APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE				RADIO EQUIPMENT	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY							
COST (in Mil)							

Base closure and DoD HF Mission Area Review (MAR) plans are incorporated into the SCOPE COMMAND program. In the event a location is identified for closure, partial closure, or under study for closure, the Air Force will cease all actions pending a final determination of a location's status and, in turn, apply available funding to the next operational priority.

2. **AF OFFICE OF SPECIAL INVESTIGATION (AFOSI) TACTICAL RADIO SYSTEM:** AFOSI requires reliable radio communications to ensure its criminal, counterintelligence, and force protection missions are accomplished during contingency operations. AFOSI must disseminate real-time threat and force protection information to many users to accomplish this mission. This includes the timely reporting of threat information to base defense forces. The tactical radio systems will allow AFOSI to effectively communicate with other US and Allied forces. Protection of agents in hostile environments is dependent upon the ability to report problems and request assistance. As information collectors, the ability to disseminate is critical to mission accomplishment. FY96 provided funding for procurement of Scope Shield Radios and upgrades to AFOSI land mobile radio trunking systems. FY97 funding will procure upgrades to land mobile radio trunking and Very High Frequency (VHF) systems to meet the National Telecommunications and Information Administration (NTIA) mandates for future frequency narrowbanding and digital encryption standards. No FY98/99 funding is requested.

3. **ACC LMR RADIOS SYSTEM:** FY96 provided funding for trunked Land Mobile Radio (LMR) systems at Offutt AFB, NE and Seymour-Johnson AFB, SC. These systems provide trunking infrastructure to manage all radio nets under a single integrated network with significantly reduced bandwidth. FY97 will procure radios for Holloman and Langley AFB, and FY98 will procure radios for Minot AFB and complete the procurement for Offutt AFB. FY99 will complete the procurement of radios for Seymour Johnson AFB.

4. **HILL AFB TRUNKED LMR SYSTEM:** Hill AFB, UT is required to convert their radio assets from a VHF (very high frequency) system to a UHF (ultra high frequency) system. This 10-channel upgrade will support all subscribers at Hill AFB and both northern and southern regions of the Utah Test and Training Range (UTTR). The UTTR is vital to the mission of the 388th Fighter Wing and 421st Reserve Unit located at Hill AFB. This UHF upgrade will support exercises, natural disasters, and real life emergencies at the base. No FY98/99 funding is requested.

5. **PACAF TRUNKED LMR SYSTEM:** The 800 MHz trunked land mobile radio (LMR) system at Andersen AFB, Guam must be replaced with a 400 MHz system by 31 Mar 97, because Andersen's frequency authorization expires on that date and the Federal Communications Commission (FCC) is auctioning off the 800 MHz band for personal communications service. Andersen has not been granted an extension of their frequency authorization beyond March 1997. The FCC has granted

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			P-1 ITEM NOMENCLATURE			RADIO EQUIPMENT			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

authorization to use the 400 MHz band for the replacement system. By reusing a significant amount of the non-frequency sensitive components, the cost of the replacement system has been minimized. Virtually all organizations on Andersen use LMRs. If LMR service is allowed to lapse, mission essential services will be severely degraded, thus jeopardizing health, welfare, safety, security, and flight operations. Other options to satisfy this requirement were explored and were found to be more costly, not feasible at this time, or would jeopardize wartime requirements. No FY98/99 funding is requested.

6. **USAF TRUNKED RADIO SYSTEM:** The Trunked Radio system replaces the existing Land Mobile Radio (LMR) network at USAFA. The new system will improve communications coverage and frequency management using state-of-the-art technology. The program will include replacing the infrastructure of the mobile radio network as well as replacing the subscriber units. This will be a phased implementation over the next few years. FY96 funds were used to procure the site survey and engineering design and part of infrastructure equipment for the new trunked radio system from the Army Base Support Trunked Radio System (BSTRS) contract. No FY98/99 funding is requested.

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME RADIO EQUIPMENT		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						FEBRUARY 1997
Weapon System Cost Elements		IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

6. USAFA TRUNKED LMR	A	VAR	N/A	345				0			0
TOTAL				11,995			10,488			12,844	15,540
<sup>1</sup> Number of Sites Being Upgraded											

P-1 SHOPP LIST ITEM NO. 74		PAGE NO. 243	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				RADIO EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. SCOPE COMMAND HF RADIO STATION  
REPLACEMENTPHASE A (ALE)  
FY96ROCKWELL  
RICHARDSON, TX

OPT/FFP 1

AFMC/SM-ALC

AUG 96

JUL 97

5<sup>2</sup>

VAR 3

PHASE B (FULL-UP)

FY97  
FY98  
FY99ROCKWELL  
ROCKWELL  
ROCKWELL  
RICHARDSON, TXOPT/FFP 1  
OPT/FFP 1  
OPT/FFP 1AFMC/SM-ALC  
AFMC/SM-ALC  
AFMC/SM-ALCJUL 97  
FEB 98  
FEB 99JAN 99  
JUL 99  
AUG 001<sup>2</sup>  
2<sup>2</sup>  
4<sup>2</sup>VAR 3  
VAR 3  
VAR 3

## 2. AFOSI TACTICAL RADIO SYSTEM

FY96  
FY97MOTOROLA, INC  
MOTOROLA, INC  
HANOVER, MDOPT/FP 4  
OPT/FP 4HQ AFOSI  
HQ AFOSIMAY 96  
MAY 97JUL 96  
JUL 97N/A  
N/AVAR 5  
VAR 5

## D. REMARKS

- DELIVERY ORDERS OFF THE BASIC FY95 CONTRACT WITH ROCKWELL INTL.
- INDICATES NUMBER OF STATIONS BEING UPGRADED.
- UNIT COSTS ARE STATION SPECIFIC. STATIONS REQUIRE VARYING QUANTITIES OF HF EQUIPMENT (RADIO LEVELS, MODEMS, ANTENNAS, POWER SUPPLIES, CONSOLES, ETC.).
- OPTION OFF GSA SCHEDULE.
- PROCUREMENT OF VARIOUS COMPONENTS OF THE SYSTEM RESULTS IN MULTIPLE UNIT COSTS.
- MULTIPLE OPTIONS FROM EXISTING ACC CONTRACTS OR OPTIONS OFF THE GSA SCHEDULE WILL BE USED TO SATISFY TRUNKING REQUIREMENTS.

Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE

FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			RADIO EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

3. ACC LMR RADIOS	ARMY BSTRS CORP	OPT/FFP 6	HQ ACC	OCT 96	DEC 96	N/A	VAR 5			
FY96	ARMY BSTRS CORP	OPT/FFP 6	HQ ACC	MAY 97	DEC 97	N/A	VAR 5	YES	NO	
FY97	ARMY BSTRS CORP	OPT/FFP 6	HQ ACC	MAY 98	DEC 98	N/A	VAR 5	YES	NO	
FY98	ARMY BSTRS CORP	OPT/FFP 6	HQ ACC	MAY 99	DEC 99	N/A	VAR 5	YES	NO	
FY99	ARMY BSTRS CORP	OPT/FFP 6	HQ ACC							
4. HILL AFB TRUNKED LMR	ARMY BSTRS CORP	MIPR/OPT/FP	AFMC/OO-ALC	OCT 96	DEC 96	N/A	VAR 5			
FY96	ARMY BSTRS CORP	MIPR/OPT/FP	AFMC/OO-ALC							
5. PACAF TRUNKED LMR	ARMY MOTOROLA, INC	MIPR/OPT/FP	HQ PACAF	MAR 96	FEB 97	N/A	VAR 5			
FY96	ARMY MOTOROLA, INC	MIPR/OPT/FP	HQ PACAF							
6. AIR FORCE ACADEMY LMR	ARMY BSTRS	MIPR to USAISMA	USAF	JUN 96	SEP 96	15	VAR 5			
FY96	ARMY BSTRS	MIPR to USAISMA	USAF							

### D. REMARKS

1. DELIVERY ORDERS OFF THE BASIC FY95 CONTRACT WITH ROCKWELL INTL.
2. INDICATES NUMBER OF STATIONS BEING UPGRADED.
3. UNIT COSTS ARE STATION SPECIFIC. STATIONS REQUIRE VARYING QUANTITIES OF HF EQUIPMENT (RADIO LEVELS, MODEMS, ANTENNAS, POWER SUPPLIES, CONSOLES, ETC.).
4. OPTION OFF GSA SCHEDULE.
5. PROCUREMENT OF VARIOUS COMPONENTS OF THE SYSTEM RESULTS IN MULTIPLE UNIT COSTS.
6. MULTIPLE OPTIONS FROM EXISTING ACC CONTRACTS OR OPTIONS OFF THE GSA SCHEDULE WILL BE USED TO SATISFY TRUNKING REQUIREMENTS.

Exhibit P-5a Procurement History and Planning

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		TV EQUIPMENT (AFRTV)								
QUANTITY		FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)	2.475	2.402	2.112	2.039	2.085	2.131	2.168	2.180		

This continuing program procures broadcasting equipment needed by the Air Force Broadcasting Service (AFBS) to support the worldwide mission of the Armed Forces Radio and Television Service (AFRTS). The Air Force operates radio and television facilities overseas in support of the internal information mission of United States Central Command, United States Pacific Command, Air Force Space Command, Air Force Space Command, and United States Air Forces Europe. This program also procures radio and television equipment for the Air Force News Agency (AFNEWS) Production Center, Kelly AFB, TX, which produces and distributes corporate Air Force radio and television news productions to AFRTS outlets, commercial stations and Air Force units throughout the world in support of the Air Force's Internal Information Program and the Army and Air Force Hometown News Service.

1. **AFRTS EQUIPMENT PROCUREMENT:** FY96-99 funds procure radio and television broadcasting equipment to include TV cameras, audio consoles, video cassette recorders, audio recorders, integrated receiver decoders, generators, equalizers, mixers, multi-channel video/audio switchers, editors, routers, TV monitors, radio/TV transmitters and antennae, microwave transmitters and antennae, satellite downlinks and fiber optic links, and specialized test equipment. This funding is critical to ensure the capability to deliver AFRTS radio and TV service to uniformed service members, civilian employees, and family members serving overseas, many of whom are serving in remote locations where AFRTS is their sole source of news and information. Failure to fund this program in its entirety will delay the replacement of aging equipment, thereby increasing the frequency of maintenance and repair to keep the older equipment in serviceable condition.

2. **AFNEWS PRODUCTION CENTER:** FY96-99 funds procure radio and TV broadcasting equipment for use within the AFNEWS Production Center. Equipment includes electronic news gathering cameras, amplifiers, receivers, generators, mixers, switchers, routers, monitors, video cassette recorders/players, editors, camcorders, consoles, equalizers, transmitters, portable satellite uplink, and keyboards. Failure to fund this program will impede the ability of AFNEWS to produce and distribute radio and TV productions in support of the Air Force's Internal Information Program and the Army Air Force Hometown News Service.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME TV EQUIPMENT (AFRTV)			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A					
Weapon System Cost Elements		IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	

1. AFRTS EQUIPMENT PROCUREMENT	A	VAR	N/A	2,183	VAR	N/A	2,118	VAR	N/A	1,824	VAR	N/A	1,750
2. AFNEWS PRODUCTION CENTER	A	VAR	N/A	292	VAR	N/A	284	VAR	N/A	288	VAR	N/A	289
TOTAL				2,475			2,402			2,112			2,039

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE TV EQUIPMENT (AFRTV)							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
<b>1. AFRTS EQUIPMENT PROCUREMENT</b>											
FY96	US ARMY/SAAD 1 MULTIPLE	C/FP/MIPR	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3				
FY97	US ARMY/SAAD 1 MULTIPLE	C/FP/MIPR	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO		
FY98	US ARMY/SAAD 1 MULTIPLE	C/FP/MIPR	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO		
FY99	US ARMY/SAAD 1 MULTIPLE	C/FP/MIPR	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO		
<b>2. AFNEWS PRODUCTION CENTER</b>											
FY96	GSA SCHEDULE MULTIPLE 4	C/FP	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3				
FY97	GSA SCHEDULE MULTIPLE 4	C/FP	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO		
FY98	GSA SCHEDULE MULTIPLE 4	C/FP	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO		
FY99	GSA SCHEDULE MULTIPLE 4	C/FP	AFNEWS	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO		

D. REMARKS			P-1 SHOPP LIST ITEM NO. 75		PAGE NO. 248		Exhibit P-5a Procurement History and Planning	
<p>1. US ARMY/SAAD IS THE TELEVISION-AUDIO SUPPORT ACTIVITY (T-ASA) OF THE SACRAMENTO ARMY DEPOT (SAAD), CA. MULTIPLE CONTRACTORS IN THE PAST HAVE INCLUDED: SONY, MOUNTAIN VIEW, CA; BROADCAST ELECTRONICS, QUINCY, IL; HEWLETT-PACKARD, SACRAMENTO, CA; HARRIS CORP, QUINCY, IL; TEKTRONIX, CAMPBELL, CA; GRASS VALLEY GROUP, GRASS VALLEY, CA; R.E. SNADER AND ASSOCIATES, INC., SACRAMENTO, CA; ODETTES BROADCAST, ANAHEIM, CA; ARRAKIS SYSTEMS, INC., FORT COLLINS, CO; SCIENTIFIC CORP., ATLANTA, GA; AND PROFESSIONAL PRODUCTS, BETHESDA, MD.</p> <p>2. AWARD DATES VARY AND OBLIGATIONS ARE MADE AT THE TIME A DELIVERY ORDER IS PROCESSED.</p> <p>3. UNIT COSTS VARY WITH EQUIPMENT TO BE PROCURED.</p> <p>4. MULTIPLE VENDORS SUCH AS SONY, MOUNTAIN VIEW, CA; AMPEX, REDWOOD CITY, CA; CHRYON, MELVILLE, NY; GRASS VALLEY GROUP, GRASS VALLEY, CA; IKEGAMI, MAYWOOD, NJ; AND ACCOM, MENLO PARK, CA.</p>								

# UNCLASSIFIED

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE CCTV/AUDIOVISUAL EQUIPMENT							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	5.757	3.958	3.969	3.283	3.359	3.431	3.488	3.515			

Close Circuit Television (CCTV) and Audiovisual (AV) systems are used throughout the Department of the Air Force. Television and AV systems have numerous applications and products derived from these systems, all dedicated to the warfighter for operational support and for readiness training, operations, medical, public and internal information, testing and evaluation, and corporate communications programs. Prior year funding continued procurement of smaller and lighter transportable television systems for our combat camera forces. Projected funding for combat camera forces includes the introduction of digital video cameras and recording systems that will enhance the transmission of video data through satellite and terrestrial terminals to commanders at all levels. Additionally, this funding continues to replace older television studio systems with newer and more capable equipment and systems for Air Force television production, video teleconferencing and video teletraining centers. These systems are helping meet the challenges of downsizing the Air Force while continuing to meet the ever-growing visual communications needs of Air Force commanders worldwide. CCTV systems are centrally managed to insure full interoperability with all other electronic image acquisition and presentation systems in the Air Force. FY96-99 CCTV/AV projects are described below.

- ELECTRONIC IMAGING SYSTEMS:** FY97 funding concludes procurement of the initial program. Under this program, film cameras and film based equipment are being replaced with electronic based systems Air Force-wide by 1997. The procurement of digitally based processing systems and video/data presentation systems provides greater flexibility and response to acquirers and users of visual imagery. The transition has reduced industrial space requirements and reduced reliance on environmentally hazardous photographic chemicals. No FY98/99 funding requested.
- IMAGE ACQUISITION/TELEVISION STUDIO EQUIPMENT:** FY96-99 funds continue procurement of replacement equipment and upgrades for studio based closed circuit television equipment. Advances in technology increasingly offer digitally based equipment for image signal capture, processing, editing and transmission. The technology offers greater capability, reliability and quality. This equipment includes editing and duplication, and all accessories necessary for image capture through distribution. This program funds equipment for 20 production centers and provides products for combat operations, education and training, and corporate communications.
- INTERACTIVE VIDEO/VIDEO DISC (IVD):** FY96-97 concludes funding for 30 system upgrades each year Air Force-wide to include Digital Video Interactive, a system for incorporating interactive motion imagery within the IVD workstations. IVD technology reduces training time, automates training record keeping and provides better skilled and knowledgeable technicians. No FY98/99 funding requested.
- COMBAT CAMERA SYSTEMS:** The FY96-99 program provides funding to replace heavily used and worn mobile combat documentation video cameras and portable video recorders for mobility tasked combat camera crews Air Force-wide. This program provides for technology upgrades to portable video systems and includes lightweight digital video cameras and camcorders that provide enhanced video quality to the warfighter. These newer systems reduce

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		CCTV/AUDIOVISUAL EQUIPMENT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

workload, enhance transportability and enable combat camera personnel to transmit motion and still imagery across satellite and cable transmission systems providing warfighters greater flexibility in decision-making with near real-time operational and combat imagery.

5. **VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS:** In FY94, Air Education and Training Command (AETC) initiated Distance Learning which is designed to accommodate the Field Training Detachment drawdown by transmitting " training from Sheppard AFB, TX to remotely located classrooms. Distance Learning includes a process known as Video Teletraining (VTT), which is managed by this program. The Sheppard AFB facility will ultimately export 123 courses covering over 5000 hours of instruction. Current plans call for broadcasting over 2000 hours by FY98. FY96 funds procured uplink and studio equipment for Keesler AFB, MS and expanded existing uplink and studio capabilities at Maxwell AFB, AL and Sheppard AFB, TX. Additionally, FY96 funds procured downlink and classroom equipment for Lackland Training Annex (Medina Annex) in San Antonio, TX and studio enhancements and dubbing facilities at Maxwell AFB, AL. FY97-98 funds will continue the VTT initiative with procurement of additional channel and classroom equipment at bases to support an expanded broadcast schedule for Air University (AU) and AETC's training needs.

6. **LEADERSHIP DEVELOPMENT CENTER:** Air Force Space Command (AFSPC) initiated a one time procurement requirement for video projection and presentation systems for the Command Leadership Development Center. This equipment enables commanders and trainers to provide visual imagery from many visual and data resources to brief and train future commanders, high level DOD, and State and Foreign dignitaries during command conferences, symposiums, seminars and meetings. No FY98/99 funding requested.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)															
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME  CCTV/AUDIOVISUAL EQUIPMENT				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION  See Manufacturing Information on P-5A			D. DATE FEBRUARY 1997				
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT															
Weapon System Cost Elements				IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
					QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

1. ELECTRONIC IMAGING SYSTEMS	A	VAR	N/A	855	VAR	N/A	981			
2. IMAGE ACQ/TV STUDIO EQUIPMENT	A	VAR	N/A	975	VAR	N/A	1,000	VAR	N/A	1,610
3. INTERACTIVE VIDEODISC (IVD)	A	VAR	N/A	151	VAR	N/A	126			
4. COMBAT CAMERA SYS	A	VAR	N/A	1,000	VAR	N/A	1,000	VAR	N/A	1,673
5. VIDEO TELECONF/ DISTANCE LEARNING SYSTEMS	A	VAR	N/A	2,454	VAR	N/A	851	VAR	N/A	
6. LEADERSHIP DEVELOPMENT CENTER	A	VAR	N/A	322						
TOTAL				5,757			3,958			3,283

P-1 SHOPP LIST ITEM NO. 76		PAGE NO. 251	Exhibit P-5 Weapon System Cost Analysis
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## UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		CCTV/AUDIOVISUAL EQUIPMENT					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST
						SPECS AVAIL NOW	SPEC REV REQ'D
							IF YES, WHEN AVAIL

1. ELECTRONIC IMAGING SYSTEMS							
FY96	MULTIPLE 1	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
FY97	MULTIPLE 1	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
							YES
							NO
2. IMAGE ACQUISITION EQUIPMENT/ TELEVISION STUDIO EQUIPMENT							
FY96	MULTIPLE 1	C/FP	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
FY97	MULTIPLE 1	C/FP	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
FY98	MULTIPLE 1	C/FP	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
FY99	MULTIPLE 1	C/FP	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
							YES
							NO
3. INTERACTIVE VIDEO/ISC (IVD)							
FY96	MULTIPLE 1	C/FP	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
FY97	MULTIPLE 1	C/FP	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3
							YES
							NO

## D. REMARKS

- EQUIPMENT IS CONTRACTED THROUGH THE OGDEN AIR LOGISTICS CENTER (OO-ALC) OR SACRAMENTO AIR LOGISTICS CENTER (SM-ALC) THAT EITHER COMPETES OR MAKES USE OF MULTIPLE CONTRACTS AVAILABLE THROUGH OTHER SERVICES/AGENCIES.
- THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
- THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITIES AND UNIT COSTS VARY.
- FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
- DECCO: DEF COMMERCIAL COMMUNICATIONS OFC.

TYPICAL CONTRACTORS INVOLVED WITH CCTV PROCUREMENT ARE: MYOU VIDEO CORP-TELEVIDEO, SAN DIEGO, CA; HOFFMAN VIDEO SYSTEMS, COSTA MESA, CA; FORD AUDIO VIDEO SYSTEMS INC., OKLAHOMA CITY, OK; PACIFIC VIDEO, ANAHEIM, CA, AND AFCC CORP, VIRGINIA BEACH, VA.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C. P-1 ITEM NOMENCLATURE CCTV/AUDIOVISUAL EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. COMBAT CAMERA SYSTEMS										
FY96	T-ASA 4 MULTIPLE	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3			
FY97	MULTIPLE 1	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO	
FY98	MULTIPLE 1	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO	
FY99	MULTIPLE 1	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO	
5. VIDEO TELECONFERENCING/DISTANCE LEARNING SYSTEMS										
FY96	DECCO 5 MULTIPLE	C/FP/MIPR	HQ AETC	MULTI 2	MULTI 2	VAR	N/A 3			
FY97	T-ASA 4 MULTIPLE	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO	
FY98	T-ASA 4 MULTIPLE	C/FP/MIPR	AFMC 1	MULTI 2	MULTI 2	VAR	N/A 3	YES	NO	
D. REMARKS										
<p>1. EQUIPMENT IS CONTRACTED THROUGH THE OGDEN AIR LOGISTICS CENTER (OO-ALC) OR SACRAMENTO AIR LOGISTICS CENTER (SM-ALC) THAT EITHER COMPETES OR MAKES USE OF MULTIPLE CONTRACTS AVAILABLE THROUGH OTHER SERVICES/AGENCIES.</p> <p>2. THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.</p> <p>3. THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITIES AND UNIT COSTS VARY.</p> <p>4. FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.</p> <p>5. DECCO: DEF COMMERCIAL COMMUNICATIONS OFC.</p> <p>TYPICAL CONTRACTORS INVOLVED WITH CCTV PROCUREMENT ARE: MYOU VIDEO CORP-TELEVIDEO, SAN DIEGO, CA; HOFFMAN VIDEO SYSTEMS, COSTA MESA, CA; FORD AUDIO VIDEO SYSTEMS INC., OKLAHOMA CITY, OK; PACIFIC VIDEO, ANAHEIM, CA. AND AFCC CORP, VIRGINIA BEACH, VA.</p>										
P-1 SHOPP LIST ITEM NO. 76				PAGE NO. 253		Exhibit P-5a Procurement History and Planning				

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE		
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					CCTV/AUDIOVISUAL EQUIPMENT					FEBRUARY 1997		
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

6. LEADERSHIP DEVELOPMENT CENTER

FY96

MDP  
CONSTRUCTION  
COLORADO SP, CO

C/FFP

HQ AFSPC

JUL 96

OCT 96

VAR

N/A

### D. REMARKS

- EQUIPMENT IS CONTRACTED THROUGH THE OGDEN AIR LOGISTICS CENTER (OO-ALC) OR SACRAMENTO AIR LOGISTICS CENTER (SM-ALC) THAT EITHER COMPETES OR MAKES USE OF MULTIPLE CONTRACTS AVAILABLE THROUGH OTHER SERVICES/AGENCIES.
- THESE ARE MULTIPLE ELEMENT NEGOTIATED CONTRACTS WITH VARIABLE AWARD AND DELIVERY DATES.
- THESE ARE MULTIPLE ELEMENT CONTRACTS FOR OFF-THE-SHELF CCTV/AUDIOVISUAL EQUIPMENT INSTALLED INTO AN EXISTING FIXED FACILITY SYSTEM. QUANTITIES AND UNIT COSTS VARY.
- FUNDING SENT TO TELEVISION-AUDIO SUPPORT AGENCY, MARCH AFB, CA, FOR EXECUTION.
- DECCO: DEF COMMERCIAL COMMUNICATIONS OFC.

TYPICAL CONTRACTORS INVOLVED WITH CCTV PROCUREMENT ARE: MYOU VIDEO CORP-TELEVIDEO, SAN DIEGO, CA; HOFFMAN VIDEO SYSTEMS, COSTA MESA, CA; FORD AUDIO VIDEO SYSTEMS INC., OKLAHOMA CITY, OK; PACIFIC VIDEO, ANAHEIM, CA. AND AFCC CORP, VIRGINIA BEACH, VA.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE			BASE COMMUNICATIONS INFRASTRUCTURE			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	31.562	27.408	30.874	28.597	29.416	29.989	30.060		30.570

The Base Communications Infrastructure program supports procurement of communications equipment for base-level infrastructure programs that either replaces maintenance intensive equipment, replaces or upgrades existing digital switching systems, provides network management of information systems, or increases the capacity of saturated information transmission systems to facilitate the rapid dissemination of vital command and control and business processing systems information. Requirements are established by Major Command (MAJCOM), Air National Guard (ANG) or Air Force Reserve (AFR) components, and fall outside the Combat Information Transport System requirements contained in P-1 Line # 61 entitled Base Information Infrastructure.

\* Funding for the Air National Guard (ANG), Civil Engineers (CE), and Air Force Materiel Command (AFMC) was formerly funded/appropriated in Base Information Infrastructure, P-1 Line # 61. These projects have been consolidated under this P-1 line to provide better visibility and management of similar programs. FY96 and FY97 funding for the ANG and CE (appropriated on P-1 Line # 61) is displayed on this budget document in order to provide complete funding profiles.

The following depicts FY96-99 projects with funding in this Base Communications Infrastructure line.

1. **AIR NATIONAL GUARD (ANG) TELECOMMUNICATIONS SYSTEMS:** FY96-99 continues to provide Base Communications Infrastructure funding for upgraded communications systems at multiple ANG sites. Funding procures new and upgraded digital switching systems (DSS) PBXs, Information Transport Systems (ITS), digital switching systems to migrate toward Asynchronous Transfer Mode (ATM) data (networks; voice, video, imagery, and telemetry systems; and base information protection systems) to ensure that the ANG (in support of ANG state and federal missions) maintains technologically viable systems that are compatible and interoperable with the DoD and Air Force command, control, communications, computer, information and intelligence architecture.
2. **CIVIL ENGINEERING (CE) REGIONAL PROCESSING CENTER (RPC) CONNECTIVITY:** The regionalization of civil engineering data automation systems being procured in Base Level Data Automation P-1 Line # 58 requires connectivity from base civil engineering units to the regional processing centers. This connectivity will allow CE to continue operation as they transition from proprietary hardware to the DoD mandated open systems environment. FY96-98 funding provides for internal building cabling, hubs, and servers at multiple CE sites. No FY99 funding is requested.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

3. **HQ AIR FORCE OFFICE OF SPECIAL INVESTIGATION (AFOSI) SWITCH:** HQ AFOSI is scheduled to move from Bolling AFB, DC to Andrews AFB, MD in 1998 and must install dedicated analog lines for communications security, fax capabilities and classified and unclassified internetworking cable. AFOSI must also link up with the current telecommunications architecture at Andrews AFB requiring procurement of new telephone equipment/instruments due to a different type of switch. FY98 funding will procure the communications hardware and engineering/integration support necessary to support this new system. No FY99 funding is requested.
4. **AIR FORCE COMMUNICATIONS AGENCY (AFCA) SUPPORT:** This program procures a variety of small-scale communications and information systems equipment items in support of the AFCA's Information Technology (IT) mission. Specific projects supported by this funding are Electronic Commerce/Electronic Data Interchange (EC/EDI), and Command, Control, Communications, Computers, Intelligence, Surveillance and Reconnaissance (C4ISR). FY99 funds will be used to purchase high speed data processing equipment to host models and simulations, real-time video systems, upgrades for satellite terminals, and lightweight fax machines for C4ISR and EC/EDI; and purchase portable extra high frequency (EHF) deployable satellite terminals for Hammer Ace.
5. **AIR FORCE MATERIEL COMMAND (AFMC) TELEPHONE SYSTEM:** This program funded the Kirkland AFB, New Mexico, Emergency Telephone Response System (E-911). It provides emergency response teams (i.e., Fire Department, Security Police) with the calling party number and location. It precludes having to ask for location in the event the caller cannot speak. No FY98/99 funds requested.
6. **AFMC AERONAUTICAL SYSTEMS CENTER (ASC) TELEPHONE SWITCH:** FY96 funds will procure a new remote electronic phone switch to support the 1200 new users occupying the ASC Acquisition Management Complex Phase II buildings. The installation of this remote switch within the complex supports the Central Utilities distribution Service Center architecture concept and eliminates the need for large bundles of copper pair telephone cables back to the Wright-Patterson AFB, OH Area B main switch. This solution affords more flexible capacity, extension of the single line telephone instrument concept at less cost than the copper service alternative. No FY98/99 funds requested.
7. **AIR FORCE SPACE COMMAND (AFSPC):** FY98/99 funding will upgrade command wide administrative switches, provide fiber to non-core command buildings, install gray wire in support of Combat Information Transport System (CITS), and acquire asynchronous transfer mode (ATM) equipment. \$3.0M per year will be used for ATM switches and the rest will be used for infrastructure requirements.

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UNCLASSIFIED									
BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)									
DATE FEBRUARY 1997									
P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE									
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT									
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

8. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	-		20.512	-		0
FY97	-		19.580	-		0
FY98	-		22.817	-		0
FY99	-		23.648	-		0

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME BASE COMMUNICATIONS INFRASTRUCTURE				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			FY 1996			FY 1997			FY 1998			FY 1999	
Weapon System Cost Elements	IDENT CODE	QTY	UNIT	COST	TOTAL COST	QTY	UNIT	COST	TOTAL COST	QTY	UNIT	COST	TOTAL COST

1. ANG TELECOMMUNICA- TIONS SYSTEMS	A	VAR	N/A	20,512	VAR	N/A	19,580	VAR	N/A	22,817	VAR	N/A	23,648
2. CE RPC CONNECTIVITY	A	VAR	N/A	8,891	VAR	N/A	7,828	VAR	N/A	3,148			
3. AFOSI SWITCH	A							VAR	N/A	424			
4. AFCA SUPPORT	A										VAR	N/A	471
5. AFMC - KIRTLAND TELEPHONE SYSTEM	A	VAR	N/A	179									
6. AFMC - AERONAUTICAL SUPPORT CENTER TELEPHONE SWITCH	A	VAR	N/A	1,980									
7. AFSPC SUPPORT								VAR	N/A	4,485	VAR	N/A	4,478
<b>TOTAL</b>				<b>31,562</b>			<b>27,408</b>			<b>30,874</b>			<b>28,597</b>

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		BASE COMMUNICATIONS INFRASTRUCTURE								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. ANG TELECOMMUNICATIONS SYSTEMS										
FY96										
SIoux CITY, IA	AT&T INGLEWOOD, CO	OPT/FP 1	HQ ANG	APR 96	JUL 96		207			
JACKSONVILLE, FL	TENNMARK NASHVILLE, TN	OPT/FP 2	ANG/SMALC	AUG 96	OCT 96		240			
MAUI ANG, HI	AT&T	OPT/FP 1	HQ ANG	SEP 96	DEC 96		347			
KULIS ANG, AK	AT&T	OPT/FP 1	HQ ANG	JUL 96	SEP 96		470			
SIoux FALLS, SD	TENNMARK	OPT/FP 2	ANG/SMALC	AUG 96	OCT 96		200			
YEAGER ANG, WV	TENNMARK	OPT/FP 2	ANG/SMALC	SEP 96	DEC 96		250			
FT SMITH ANG, AR	TENNMARK	OPT/FP 2	ANG/SMALC	AUG 96	OCT 96		250			
GREATER PEORIA, IL	TENNMARK	OPT/FP 2	ANG/SMALC	SEP 96	NOV 96		250			
PORTLAND IAP, OR	AT&T	OPT/FP 1	HQ ANG	SEP 96	NOV 96		223			
ALPENA ANG, MI	AT&T	OPT/FP 1	HQ ANG	JUN 96	AUG 96		133			

D. REMARKS  
WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.



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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		
ANG SMALL SWITCH UPGRADES	AT&T INGLEWOOD, CO	OPT/FP 1	HQ ANG	APR 96	OCT 96	74 4	19					
WARRIOR NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FP 3	HQ ANG	MAY 96	JUL 96	86 4	31					
ANDREWS AFB, MD WARNET UPLINK	AT&T FEDERAL SYS	OPT/FP 3	HQ ANG	MAY 96	JUL 96		405					
TYNDALL AFB, FL WARNET UPLINK	AT&T FEDERAL SYS	OPT/FP 3	HQ ANG	MAY 96	JUL 96		405					
OTIS ANGB, MA	DICHROMA FALLS CHURCH, VA	OPT/FP 5	HQ ANG	JUL 96	OCT 96		100					
ANG WAN ROUTER BUY/INSTALL	BDM FALLS CHURCH, VA	C/FP	HQ ANG	JUL 96	SEP 96	43 4	24					
ANG WAN ROUTER BUY/INSTALL	DIGICOM BETHESDA, MD	SS/FP 6	HQ ANG	JUL 96	AUG 96	25 4	9					
ANG WAN SERVER BUY	DIEZ LAKERIDGE, VA	OPT/FP 7	HQ ANG	APR 96	MAY 96	111 4	14					
D. REMARKS WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.												
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## D. REMARKS

WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				C. P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
ANG WAN SERVER BUY	DIGICOM BETHESDA, MD	SS/FP 6	HQ ANG	JUL 96	AUG 96	75 4	13				
ANG WAN CD TOWER BUY	DIGICOM	SS/FP 6	HQ ANG	SEP 96	OCT 96	85 4	10				
ANG WAN NETWORK OPERATING SOFTWARE	DIGICOM	SS/FP 6	HQ ANG	SEP 96	DEC 96		3500				
ANG IMAGING SYSTEM	AMERIND, INC ALEXANDRIA, VA	OPT/FP 8	HQ ANG	MAR 96	SEP 96	10 4	300				
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA, VA	C/FP	HQ ANG	SEP 96	SEP 96	89 4	18				
ANG-WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	C/FP	HQ ANG	JUL 96	AUG 96		222				
FY97											
HENSLEY ANGB, TX	TENNMARK NASHVILLE, TN	OPT/FP 2	ANG/SMALC	JAN 97	MAR 97		250				
BOISE, ID	AT&T INGLEWOOD, CO	OPT/FP 1	HQ ANG	JAN 97	APR 97		903				
ANG SMALL SWITCH UPGRADES	AT&T	OPT/FP 1	HQ ANG	JAN 97	JUN 97	75 4	21				
<b>D. REMARKS</b> WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.											
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C. P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
ANG SMALL SWITCH UPGRADES	TENNMARK NASHVILLE, TN	OPT/FP 2	ANG/SMALC	JAN 97	JUN 97	40 4	34			
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FFP 3	HQ ANG	JAN 97	MAR 97	86 4	23			
OTIS ANGB, MA ATM FIBER	DICHROMA FALLS CHURCH, VA	OPT/FP 5	HQ ANG	OCT 96	DEC 96		2000			
BUCKLEY ANGB, CO ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	DEC 96	FEB 97		200			
HULMAN RAP, IN ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	DEC 96	FEB 97		200			
BIRMINGHAM, AL ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	FEB 97	APR 97		178	YES	NO	
JEFFERSON BARRACKS, MO ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	FEB 97	APR 97		178	YES	NO	
SELFRIDGE, MI ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	APR 97	JUN 97		750	YES	NO	
SEPULVEDA ANGB, CA ATM FIBER	DICHROMA FALLS CHURCH, VA	OPT/FP 5	HQ ANG	APR 97	JUN 97		150	YES	NO	
D. REMARKS WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION. DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.										
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE		
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					BASE COMMUNICATIONS INFRASTRUCTURE					FEBRUARY 1997		
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

WILLOW GROVE, PA ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	JUN 97	SEP 97		500	YES	NO			
SPRINGFIELD, OH ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	JUN 97	SEP 97		178	YES	NO			
NEW ORLEANS, LA ATM FIBER	DICHROMA	OPT/FP 5	HQ ANG	AUG 97	NOV 97		200	YES	NO			
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA, VA	OPT/FP 9	HQ ANG	SEP 97	SEP 97	86 <sup>4</sup>	14	YES	NO			
ANG-WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	OPT/FP 10	HQ ANG	JUN 97	AUG 97	86 <sup>4</sup>	15	YES	NO			
ANG-WIDE IMAGING SYS	AMERIND, INC ALEXANDRIA, VA	OPT/FP 8	HQ ANG	JAN 97	AUG 97	10 <sup>4</sup>	300	YES	NO			
ANG WAN HUB BUY/INSTALL	PRESIDIO LANHAM, MD	OPT/FP 11	HQ ANG	JUN 97	AUG 97	30 <sup>4</sup>	35	YES	NO			
ANG/GSU WAN SERVER BUY	DIGICOM BETHESDA, MD	SS/FP 5	HQ ANG	AUG 97	SEP 97	220 <sup>4</sup>	13	YES	NO			

**D. REMARKS**  
WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE COMMUNICATIONS INFRASTRUCTURE								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

NETWORK MANAGEMENT SOFTWARE	GSA UNKNOWN	OPT/FP 12	HQ ANG	APR 97	SEP 97		1276	YES	NO	
FY98										
ANG SWITCH UPGRADES	AT&T INGLEWOOD, CO	OPT/FP 1	HQ ANG	JAN 98	JUN 98	43 4	46	YES	NO	
ANG SWITCH UPGRADES	TENMARK NASHVILLE, TN	OPT/FP 2	ANG/SM-ALC	JAN 98	JUN 98	43 4	45	YES	NO	
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FP 3	HQ ANG	JAN 98	MAR 98	86 4	24	YES	NO	
ANG-WIDE IMAGING SYS	AMERIND, INC ALEXANDRIA, VA	OPT/FP 8	HQ ANG	JAN 98	AUG 98	10 4	300	YES	NO	
ANG WAN SERVER BUY	DIGICOM BETHESDA, MD	SS/FP 6	HQ ANG	FEB 98	APR 98	225 4	6	YES	NO	
ANG WAN SERVER UPGRADE	GSA UNKNOWN	OPT/FP 12	HQ ANG	FEB 98	APR 98	225 4	6	YES	NO	
ANG/GSU WAN CD TOWER BUY	DIGICOM BETHESDA, MD	SS/FP 6	HQ ANG	MAR 98	MAY 98	110 4	10	YES	NO	

## D. REMARKS

WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					C. P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
ANG WAN ROUTER UPGRADE	GSA UNKNOWN	OPT/FP 12	HQ ANG	DEC 97	JAN 98	250 <sup>4</sup>	4	YES	NO		
ANG WAN FAST ETHERNET SERVER BUY	GSA UNKNOWN	OPT/FP 12	HQ ANG	JUN 98	SEP 98		885	YES	NO		
ANG WAN HUB BUY/INSTALL	PRESIDIO LANHAM, MD	OPT/FP 11	HQ ANG	DEC 97	FEB 98	60 <sup>4</sup>	50	YES	NO		
ANG-WIDE VOICE/VIDEO WIRE FIBER OPTIC CONVERSION	AT&T INGLEWOOD, CO	OPT/FP 1	HQ ANG	MAR 98	AUG 98	12 <sup>12</sup>	284	YES	NO		
ANG-WIDE NETWORK INFO PROTECT	SUN MICRO SYS ALEXANDRIA, VA	OPT/FP 9	HQ ANG	JUN 98	SEP 98	86 <sup>12</sup>	14	YES	NO		
ANG-WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	OPT/FP 10	HQ ANG	JUN 98	AUG 98		618	YES	NO		
FY99											
ANG SWITCH UPGRADES	AT&T INGLEWOOD, CO	OPT/FP 1	HQ ANG	JAN 99	JUN 99	43 <sup>4</sup>	35	YES	NO		
ANG SWITCH UPGRADES	TENMARK NASHVILLE, TN	OPT/FP 2	ANG/SM-ALC	JAN 99	JUN 99	43 <sup>4</sup>	34	YES	NO		

D. REMARKS  
WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						SPECIFICATIONS	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE COMMUNICATIONS INFRASTRUCTURE						REV'D	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	IF YES, WHEN AVAIL		
ANG VTC NETWORK	AT&T FEDERAL SYS SILVER SPRING, MD	OPT/FFP 3	HQ ANG	JAN 99	MAR 99	86 <sup>4</sup>	25	YES	NO		
ANG-WIDE IMAGING SYSTEM	GSA UNKNOWN	OPT/FP 12	HQ ANG	FEB 99	APR 99	225 <sup>12</sup>	6	YES	NO		
ANG WAN SERVER UPGRADE	UNKNOWN <sup>13</sup>	SS/FP 13	HQ ANG	APR 99	JUL 99	150 <sup>12</sup>	6	YES	NO		
ANG WAN CD TOWER UPGRADE	UNKNOWN <sup>13</sup>	SS/FP 13	HQ ANG	MAR 99	MAY 99	110 <sup>12</sup>	10	YES	NO		
ANG WAN ATM HUB UPGRADE	GSA UNKNOWN	OPT/FP 14	HQ ANG	MAR 99	MAY 99	600 <sup>12</sup>	6	YES	NO		
ANG-WIDE VOICE/VIDEO WIRE FIBER CONVERSION	AT&T	OPT/FP 1	HQ ANG	MAR 99	AUG 99	33 <sup>12</sup>	297	YES	NO		
ANG -WIDE NETWORK INFORMATION PROTECT	SUN MICRO SYS ALEXANDRIA, VA	OPT/FP 9	HQ ANG	MAR 99	SEP 99	86 <sup>12</sup>	14	YES	NO		
ANG -WIDE DEPLOYABLE NETWORK BNCC	ZDS HERNDON, VA	OPT/FP 10	HQ ANG	JUN 99	AUG 99		691	YES	NO		

D. REMARKS  
WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE								
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				BASE COMMUNICATIONS INFRASTRUCTURE								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

2. CE RPC CONNECTIVITY FY96 FY97 FY98 FY98	MULTIPLE 15 MULTIPLE 15 MULTIPLE 15 MULTIPLE 15	C/FFP C/FFP C/FFP C/FP	HQ AFCEA HQ AFCEA HQ AFCEA HQ AFOSI	DEC 96 <sup>15</sup> JAN 97 15 NOV 97 15 DEC 97	FEB 96 15 MAR 97 15 JAN 98 15 JAN 98	VAR VAR VAR VAR	N/A 15 N/A 15 N/A 15 N/A 15	YES YES YES YES	NO NO NO NO					
3. AFOSI SWITCH FY98	MULTIPLE 15	C/FP	HQ AFOSI	DEC 97	JAN 98	VAR	N/A 15	YES	NO					
4. AFCA COMM TRNG SUPPORT FY99	MULTIPLE 15	C/FP	HQ AFCA	JAN 99	MAY 99	VAR	N/A 15	YES	NO					
5. AFMC TELEPHONE SYSTEM - KIRTLAND FY96	SYSTEMS INTERGRATION/ MODELING & SIMULATION INC (SIM&S)	OPT/FP <sup>6</sup>	AFMC/ KIRTLAND AFB	JAN 97	APR 97	VAR	N/A							
6. AFMC TELEPHONE SWITCH - AERONAUTICAL SUPPORT CENTER FY96	NORTEL RICHARDSON TX	OPT/FP <sup>16</sup>	AFMC/SM-ALC	FEB 96	APR 96	VAR	N/A							
7. AFSPC FY98 FY99	MULTIPLE <sup>17</sup> MULTIPLE <sup>17</sup>	C/FP C/FP	MULTI MULTI	JAN 98 JAN 99	MAY 99 MAY 00	VAR VAR	N/A N/A	YES YES	NO NO					

D. REMARKS  
WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIED LOCATION.  
DUE TO SPACE LIMITATIONS, FOOTNOTES ARE AT THE BOTTOM OF THE P-5A.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			C. P-1 ITEM NOMENCLATURE BASE COMMUNICATIONS INFRASTRUCTURE							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## FOOTNOTES:

1. GSA Schedule 58, Part IV, is a contract negotiated annually by GSA with AT&T.
2. Option to regionalized GSA competitive contract for switches with Tenmark, Nashville, TN.
3. The ANG awarded a competitive contract in Jan 95 to AT&T Federal Communications Systems, Silver Spring, MD, for video teleconferencing hardware/software to implement the ANG's Warrior Network. Warrior Network provides information distribution network capability to support video-teletraining, e.g., distant learning, and video teleconferencing, e.g., staff meeting/town hall services through the ANG.
4. Number of ANG locations.
5. Option to contract with Dichroma Corp through GSA Office of Information Security.
6. 8A Small Business Set Aside Contract.
7. Various options off the GSA schedule.
8. The ANG awarded a 5-year 8A (Small Business) contract in Mar 94 to Amerind, Inc, Alexandria, VA to procure automated information system services and hardware/software items to include automated management and imagery systems.
9. Option to FY96 contract with Sun Micro Systems, Alexandria, VA.
10. Option to FY96 contract with ZDS Corp, Herndon, VA.
11. The ANG awarded a 5-year 8A Small Business Set-aside to Presidio, Lanham, MD procure local area network (LAN) components and install LANs at ANG locations throughout the U.S. and its territories.
12. Option off the GSA schedule. Contractor to be determined.
13. 8A Business Set-aside Contract. Specific contractor to be determined.
14. Contract to be awarded through GSA Office of Information Security. Specific contractor to be determined.
15. Multiple types of equipment will be procured off the GSA schedule resulting in varying unit costs. Above award and delivery dates represent date of first award and delivery.
16. Option off Scope Dial Contract administered by Sacramento ALC, McClellan AFB, CA.
17. Multiple Fair and Open Contracts (AFSPC Command Contract) - GSA - Small Business

## D. REMARKS

NOTE: WHERE NO "QUANTITIES" ARE INDICATED, THE "UNIT COST" REPRESENTS THE TOTAL COST TO INSTALL COMMUNICATIONS EQUIPMENT AT THE SPECIFIC LOCATION. DUE TO SPACE LIMITATIONS, THE FOOTNOTES ARE INCLUDED ON THE LAST PAGE OF THE P-5A.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE							
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			CIVIL AIR PATROL (CAP) COMMUNICATIONS AND ELECTRONICS							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)	-	-	.387	.388	.400	.411	-	-	-	

The Civil Air Patrol (CAP) Communications and Electronics program is a continuing program for acquisition of communications and computer equipment required to support nationwide CAP activities of both an operational and management nature. General operational support applications include command and control of search and rescue, counterdrug, disaster relief and training activities. CAP activities require automated data processing equipment (ADPE) support for processing and storage of CAP membership information, aerospace education and cadet training program data, operational and logistics data, bookstore, depot inventory and sales information (CAP accounting system) and other day-to-day management activities. FY98/99 funding continues procurement of such items as (1) very high frequency-frequency modulated (VHF-FM) transceivers and signal repeaters; (2) high frequency (HF) transceivers, power supplies and antennas; (3) high frequency voice system upgrade, and (4) National Digital Radio Network (NDRN) Expansion Project.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				P-1 ITEM NOMENCLATURE ITEMS LESS THAN \$2,000,000					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
COST (In Mil)	5.888	9.635	8.960	8.702	9.266	9.015	6.490	6.495	

The "Items Less Than \$2 Million" line funds various procurement activities which support the missions of all Air Force Major Commands. This program contains numerous miscellaneous items of electronics and telecommunications equipment; no single item procured in this P-1 line is greater in cost than \$2 million. Two of the major procurement activities in this line are for Allowance Sources (AS) equipment and replacement power conditioning equipment. Miscellaneous AS Authorizations provide support to organizational units in the field in terms of newly authorized and/or replacement items of equipment. Power Conditioning and Continuation Interface Equipment (PCCIE) systems are used to back up and protect power sensitive/dependent computer systems. Projects associated with FY96-99 funding are described below:

1. **ALLOWANCE SOURCES (AS) AUTHORIZATIONS:** Requirements funded in this program are generated as the result of condemnations of existing equipment, an increase in the basis of issue on an individual item, or a change in the basing structure. Units requisition items based on authorizations contained in Allowance Sources (AS) which tailor support equipment authorizations to unit missions. The Equipment Item Requirements Computation generates a total net buy requirement based on a comparison of authorizations and on-hand assets. Examples of equipment procured are: special electronics atmospheric equipment, electronic warfare and bombing gunnery ranges, equipment for communications evaluation/maintenance teams, and ground radar special mission and support equipment. FY98-99 funds continue funding for Air Force AS requirements.
2. **POWER CONDITIONING AND CONTINUATION INTERFACE EQUIPMENT (PCCIE):** PCCIE consists of a family of commercial equipment or devices which provides specialized electric power conditioning or regulation to support power sensitive data processing, communications, life support and mission critical equipment. Examples are solid state uninterruptible power systems and power (line) conditioners. This program procures replacement PCCIE for all Major Commands (MAJCOMs) and Field Operating Agencies (FOAs) as well as for the Air National Guard (ANG) and Air Force Reserve (AFR). PCCIE for new systems is procured in conjunction with the major end items of equipment in the same P-1 line where the equipment is bought. FY98-99 funds continue PCCIE procurement for multiple Air Force programs.
3. **AUTOMATED RADAR TRACKING SYSTEM (ARTS):** FY96 funds supported installation of a remote ARTS to provide radar coverage of Shaw AFB, SC airspace warning systems off the coast of South Carolina. This action transferred military Air Traffic Control (ATC) workload from the FAA Jacksonville Air Route Traffic Control Center (ARTCC) to the Shaw AFB Radar Approach Control (RAPCON) facility. The Shaw AFB RAPCON will now be able to provide military radar coverage of the USAF's Atlantic Ocean airspace warning areas.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)									
DATE FEBRUARY 1997									
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT				ITEMS LESS THAN \$2,000,000					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

4. **NORTH WARNING PROGRAM OFFICE:** FY96 funds supported North Warning Program Office reimbursement of the contractor for proposal preparation based on a canceled Spread Spectrum modification to the AN/FPS-117 Long Range Radar.
5. **SPACE ARCHITECTURE OFFICE:** FY96 funds procured office automation equipment (LANS, Audiovisual, General Purpose) to support stand-up of the Space Architecture Office. Reference Congressional notification letter, 9 Feb 96, to Senator Inouye and members of other Congressional Committees. This effort supports Congressional concerns with regard to DOD space management.
6. **CIVIL AIR PATROL:** FY97 funds procured digital radio equipment to support the National Digital Radio Network (NDRN) Expansion Project and the Civil Air Patrol High Frequency Voice Upgrade project. FY98 and FY99 funds are budgeted under P-1 Line Number 78, CAP Com & Electronics.

**ANG/AFR:**

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	-		0.000	-		0.000
FY97	-		0.000	-		0.000
FY98	-		3.491	-		0.046
FY99	-		1.694	-		0.000

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY				B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE	
TITLE/NO.				ITEMS LESS THAN \$2,000,000				Multiple Pieces of Equipment are Procured Off Various Contracts	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT									
Weapon System Cost Elements				FY 1996		FY 1997		FY 1998	
IDENT CODE				QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
				QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. ALLOWANCE SOURCES AUTHORIZATIONS	A	VAR	N/A	3,520	VAR	N/A	2,849	VAR	N/A	3,437	VAR	N/A	2,913
2. PCCIE	A	VAR	N/A	923	VAR	N/A	6,495	VAR	N/A	5,523	VAR	N/A	5,789
3. ARTS	A	VAR	N/A	471									
4. NORTH WARNING PROGRAM OFFICE	A	VAR	N/A	250									
5. SPACE ARCH OFFICE	A	VAR	N/A	724			291						
6. CIVIL AIR PATROL	A				VAR	N/A							
TOTAL				5,888			9,635			8,960			8,702

P-1 SHOPP LIST ITEM NO. 79			PAGE NO. 272	Exhibit P-5 Weapon System Cost Analysis	
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE	
APPROPRIATION/BUDGET ACTIVITY					FEBRUARY 1997	
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT					COMM-ELECTRONICS MODIFICATIONS	
P-1 ITEM NOMENCLATURE					FY 2001	
FY 1996					FY 2002	
FY 1997					FY 2003	
FY 1998						
FY 1999						
FY 2000						
FY 2001						
FY 2002						
FY 2003						
QUANTITY						
COST (In Mil)						
9.657					45.304	
14.209					47.656	
53.260					62.658	
61.293					45.530	

Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies, or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems, or equipment. This budget line encompasses both new and on-going modification efforts for Communication-Electronics equipment and systems. Modification installation funding is budgeted in the year the installation will physically be done. Modifications for FY96-FY99 are ongoing or planned for the following systems: Atmospheric Early Warning System (AEWS), Ground Tactical Air Control System (GTACS), Air Traffic Control and Landing Systems (ATCALS), Weather Observation and Forecast, Cheyenne Mountain Complex (CMC), Ballistic Missile Early Warning System (BMEWS). Details follow by system: (\$ in millions)

1. **ATMOSPHERIC EARLY WARNING SYSTEM (AEWS)**, together with the Ballistic Missile Warning System and the Space Surveillance System, form the Integrated Tactical Warning and Attack Assessment (ITW/AA) network. The AEWS provides the early warning for all atmospheric threats, e.g., aircraft and cruise missiles approaching the northern hemisphere. The AEWS includes sensors (AN/FPS-117, AN/FPS-118, and AN/FPS-124) and the operations centers (Regional Operations Control Centers/Sector Operations Control Centers (ROCCs/SOCCs)) that use the AN/FYQ-93 computer system to fuse and act on warning data to launch intercepts at potential hostile threats. The system data is forwarded to the National Command Center at Cheyenne Mountain Complex for overall control of defense operations by North American Aerospace Defense (NORAD) Command. Modifications are ongoing on the following equipment items:

a. The **AN/FPS-117** long range radar is a minimally attended, solid-state radar that detects and tracks air breathing targets at ranges of up to 200 nautical miles (NMI). Various versions of the AN/FPS-117 have been fielded under the SEEK IGLOO program, the North Warning System, and the North Atlantic Defense Systems (NADS). Data from the AN/FPS-117 is forwarded and processed by the AN/FYQ-93 computer at the operations control centers.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
38516B	AN/FPS-117 RELIABILITY, MAINT & SUPR IMPROVEMENT	25.235	0	5.046	5.049	0.299
	TOTAL	25.235	0	5.046	5.049	0.299

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		COMM-ELECTRONICS MODIFICATIONS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY							FY 2003
COST (In Mil)							

**2. GROUND TACTICAL AIR CONTROL SYSTEM (GTACS)** The GTACS consists of the ground based portion of the Theater Air Control System (TACS), and consists of a family of communications-electronics components that provide the battlefield commander with systems and resources to support situational awareness, joint, allied, and combined forces planning, execution of the air tasking order, air interdiction, close air support, counter air, airlift, air refueling, special operations, electronic combat, surveillance, reconnaissance, and search and rescue mission. The GTACS also plays a major role in Theater Missile Defense (TMD) and the evolving concept of Theater Battle Management (TBM).

a. The **AN/TPS-75**: The GTACS uses the AN/TPS-75 radar as its primary sensor. The TPS-75 radar is an upgrade to the 1940's vintage AN/TPS-43E radar. The AN/TPS-75 has an ultra low sidelobe antenna (ULSA) which added an electronic countermeasures capability to the AN/TPS-43E. The AN/TPS-75 radar is a mobile, three dimensional (range, azimuth, altitude) surveillance, acquisition, and tracking radar used in the GTACS for aerospace control in the theater of air operations. It has an operating range of 240 miles and altitude coverage up to 95,000 feet. The AN/TPS-75 radar is fielded in the active Air Force and the Air National Guard TACS.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00
M00016	RADAR SHELTER REPLACEMENT					1.000	1.000
M00018	UPX-27 IFF INTEROGATOR					0.990	1.485
	TOTAL					1.990	2.485

3. **AIR TRAFFIC CONTROL AND LANDING SYSTEMS (ATCALS)** is a combination of USAF ground facilities and equipment with associated avionics, personnel and procedures that provide air traffic control support to USAF/DoD flying missions worldwide. ATCALS provide enroute and terminal navigation, control and separation, and approach, departure and landing guidance. ATCALS provide operability with NATO, the U. S. National Aerospace System and the International Civil Aviation Organization. Includes both fixed and tactical equipment/systems.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99
B7165	AN/TPN-19 LANDING CONTROL		7.100		1.393	
B7167	AN/TRN-41 ANT TRANSMITTER			7.296	1.030	
	MISC LOW COST MOD	0.070				
	TOTAL	0.070	7.100	7.296	2.423	

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE					
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT		COMM-ELECTRONICS MODIFICATIONS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY							
COST (In Mil)							

4. The **WEATHER OBSERVATION AND FORECAST** system supports the worldwide meteorological missions of the Air Force, the Army, and the unified commands. Included are fixed and transportable equipment needed to provide observing and forecast services at base or post and for field deployments; and fixed and tactical dedicated weather communications equipment to support weather operations for the warfighters.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00	FY01	FY02
B7126	QRCT WX COMM	1.500	1.492						
B7127	AN/FMQ-8 PACER CARD		0.305						
94-010	UMQ-12 UPPER AIR SOUNDER GLOBAL POSITIONING ENHANCEMENT		0.760						
94-003A	WSR-88D TRANSMITTER UPGRADE			1.867	1.800	0.533			
94-008	CENTRALIZED DATABASE MANAGEMENT SYSTEM (CDMS) UPGRADE				2.500				
95-001	AF GWC DIAL-IN SUBSYSTEM (AFDIS) & AFW INFORMATION NETWORK (AFWIN)				5.410				
94-003B	WSR-88D RADAR DATA ACQUISITION (RDA) GROUP MIGRATION TO OPEN SYSTEM					2.200	1.930	2.095	
96-001	SOLAR ELECTRO-OPTICAL NETWORK (SEON) SOLAR MAX (SSM)				4.821	0.050	0.150		
93-005	RADIO SOLAR TELESCOPE NETWORK (RSTN) MOD FOR SRBL				2.200	5.500	0.300		
95-010	TACTICAL FORECAST SYSTEM (TFS)/AWDS MERGED SYSTEM, TFS-2000				6.787	1.713			
93-008	AN/FMH-2 AUTOMATED WEATHER DISTRIBUTION SYSTEM (AWDS) FUNCT AREAS				0.925	0.818	1.914		
95-003	WEATHER INFORMATION PROCESSING SYSTEM (WIPS) UPGRADE					6.000	2.000		
94-004A	WSR-88D RADAR PRODUCT GENERATOR (RPG) MIGRATION				0.904	1.182	1.200		
94-004B	PRINCIPAL USER PROCESSOR (PUP) GROUP REPLACEMENT				0.635	2.000	1.980	1.100	
95-011	TACTICAL METEOROLOGICAL OBSERVING SYSTEM UPGRADE				1.653	1.746	6.084		
96-031	IMPROVED SOLAR OBSERVING OPTICAL NETWORK (ISOON)					1.300	3.400	0.100	0.300
	TOTAL	1.500	2.557	1.867	27.635	23.042	18.958	3.295	0.300

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE						
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT			COMM-ELECTRONICS MODIFICATIONS						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

5. The **CHEYENNE MOUNTAIN COMPLEX** (CMC) provides: (1) real-time processing and display of missile warning and force management information to the CMC and the Alternate Processing and Correlation Center, and direct sensor input to National Strategic Response Plan (NSRP) decision-makers at fixed command centers; (2) communications services for all communications into or out of CMC and between CMC mission processors; (3) new processors and display systems supporting the CMC Air Defense Operations Center (ADOC), North American Aerospace Defense Center (NORAD) Command Center, Resource Center (NORAD Battle Staff), and Weather Support Unit; (4) an effective command post to support NORAD's multiple warning and defense missions; (5) automated handling of space surveillance and warning messages; (6) communications interface processors at all missile warning sensors and command centers; and (7) an alternate NORAD command center, alternate missile warning center, alternate air warning center.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00	FY01
S529382	TECH CONTROL (BYTEX)				4.000	3.900		
S604620	SCIS					2.356	1.900	1.500
S604628	VDS MONITOR					4.559	1.958	1.933
S604622	ELECTRONIC WARFARE WORKSTATION				0.575	0.125		
MISC	MISCELLANEOUS LOW COST MODS				0.686	0.167		
	TOTAL				5.261	11.107	3.858	3.433

6. The **BALLISTIC MISSILE WARNING SYSTEM (BMEWS)** consists of three sites located at Thule, Greenland; Clear, Alaska; and Flyingdales, England. Its mission is to detect and provide warning of a ballistic missile attack on the United States, Canada, and the United Kingdom, or Europe. BMEWS was built in the late 50's; other BMEWS radars (Thule and Flyingdales) already upgraded to phased-array technology in 1987 and 1992. BMEWS originally built as trip-wire system in response to 1950s threat; however, this threat has evolved through several generations of ICBMs/SLBMs; therefore, target handling and accuracy capabilities need to be upgraded to better discriminate RVs from other objects in order to obtain a more accurate raid count and impact prediction. This modification upgrades the Clear Alaska site to a two-faced, fixed 0dB (1792 active radar elements) phased-array radar using the Eldorado PAVE PAWS equipment; moving all equipment and installing it at Clear Alaska and includes all hardware elements (radar elements, signal processors, data processors) and software. This modification will significantly reduce the Clear Alaska site operations and maintenance cost, increase the capability, reliability, and availability of the system.

MOD #	DESCRIPTION	PY	FY96	FY97	FY98	FY99	FY00
	CLEAR ALASKA RADAR UPGRADE				12.892	24.855	21.898
	TOTAL				12.892	24.855	21.898

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY					FEBRUARY 1997			
OPAF/ELECTRONICS & TELECOMMUNICATIONS EQUIPMENT								
P-1 ITEM NOMENCLATURE								
COMM-ELECTRONICS MODIFICATIONS								
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)								

## 7. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	-		0.528	-		0.000
FY97	-		0.844	-		0.000
FY98	-		0.602	-		0.000
FY99	-		0.152	-		0.000

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# UNCLASSIFIED





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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: AN/TPS-75 RADAR Shelter Replacement: Mod# M00016

Models of Systems Affected: Comm-Electronics - GTACS - AN/TPS-75

Description/Justification: This modification replaces the current Radar equipment shelter with an improved version with increased weight capability. The current shelters are 20 years old, deteriorating, delaminating and are increasing overall operation and maintenance costs. Several shelters do not support the operational mission or are mission limiting.

Development Status/Major Development Milestones: Technical Solution: Sep 96, FSD Contract: TBD

Financial Plan: (\$ in Millions)		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOT AL	
Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E:			1.7		0.2											1.9	

Procurement																	
Kit Quantity																	
Installation Kits																	
Installation Kit Nonrecurring																	
Equipment																	
Equipment Nonrecurring																	
Engineering Change Orders																	
Data																	
Training Equipment																	
Support Equipment																	
Other																	
Interim Contractor Support																	
Installation of Hardware																	
(FY) Eqpmt ( Kits)																	
(FY96) Eqpmt ( Kits)																	
(FY97) Eqpmt ( Kits)																	
(FY98) Eqpmt ( Kits)																	
(FY99) Eqpmt (12 Kits)																	
(FY00) Eqpmt (12 Kits)																	
(FY01) Eqpmt ( Kits)																	
(FY02) Eqpmt ( Kits)																	
Total Installation Cost																	
Total Procurement Cost																	

Method of Implementation: Organic, Depot		FY96:		FY97:		FY98:		FY99:		FY00:		FY01:		FY02:		TOTAL	
Contract Dates:		FY96:		FY97:		FY98:		FY99:		FY00:		FY01:		FY02:			
Delivery Dates:		FY96:		FY97:		FY98:		FY99:		FY00:		FY01:		FY02:			
Installation Schedule		PY	1	2	3	4	1	2	3	4	1	2	3	4		24	
Input																	
Output																	

280



Models of Systems Affected: Comm-Electronics - GTACS - AN/TPS-75

Development Status/Major Development Milestones: Contract award: OCT 98, CCB: FEB 98, PR: FEB 98

[illegible]

## Procurement

## Installation Kits

## Installation Kit N

Equipment

၂၁၁

## Training Equipment

Other

## Installation of Hardw

(FY96) Eoat ( Kits

(1157) 24pt / Kite  
(1508) 24pt / Kite

(FY99) Eqpt (20 K)

(FY01) Eqpt ( Kit

**Total Installation Cost:**

**Contract Dates:**

**Delivery Dates:**

## Installation Schem

10

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### Models of Systems Affected: Comm-Electronics - Air Traffic Control and Landing Systems (ATCALS)

**Description/Justification:** The AN/TPN-19 is a transportable Landing Control (LCC) used to control and land aircraft at forward operating airfields consisting of four separate shelters. One shelter houses the AN/TPN-24 Airport Surveillance Radar which provides coverage for a 60 NM area around an airfield. A second shelter houses the AN/TPN-25 Precision Approach radar which provides final approach service under instrument flight rules from 15 nautical miles (NM) to runway touch down pencil beam technology. The AN/TPN-19 also has an expandable operations shelters that accommodate seven air traffic controllers and two assistant positions. The shelter is transported as two items and assembled as one large shelter at deployed locations. This modification will replace four 20-plus year old AN/TPN-24 and AN/TPN-25 structurally weak shelters with new ISO standard shelters to handle the high weight load of the antennas and boom assembly. This will correct serious mechanical/electronic alignment problems during system set-up and operation. The modification will be integrated into the AN/TPN-19 depot repair schedule. The total requirement is for 8 systems. FY98 funds covered non recurring costs, data, 12 shelters and modifications to 6 systems. FY98 funds complete shelter purchases 2 each and modifications remaining 2 systems.

Development Status/Major Development Milestones: CCB Dec 95; Specification and SOW completion Dec 95; RFP Feb 96

[illegible]

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: AN/TRN-41Antenna and Transmitter Upgrade, B7167

Models of Systems Affected: Comm-Electronics - Air Traffic Control and Landing Systems (ATCALS)

Description/Justification: The AN/TRN-41 is a lightweight, portable navigation aid designed to provide limited navigation capability or aircraft operations in austere locations during degraded weather conditions. Extremely portable, this is the only equipment available to provide ground based navigation capability in the initial stages of an operation. This modification corrects existing deficiencies by replacing the antenna with an all-band antenna allowing the equipment to be sited in more varied locations world-wide. It also increases power output which helps ensure coverage at required operating distances. Finally, the modification provides a self-monitoring capability for the azimuth signal allowing the equipment to be certified for use in the National Airspace system and meet civil interoperability requirements. The total requirement is for 60 kits, 50 Ea in FY97 and 10 Ea in FY98.

Development Status/Major Development Milestones: CCB Feb 96; Specification and SOO completion May 96; RFP Jul 96

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY 96	Qty	Cost	FY 97	Qty	Cost	FY 98	Qty	Cost	FY 99	Qty	Cost	FY 00	Qty	Cost	FY 01	Qty	Cost	FY 02	Qty	Cost	TOT AL	Qty	Cost
----------------------------------	----	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	--------	-----	------

RDT&E: None																												
Procurement																												
Kit Quantity																												
Installation Kits																												
Installation Kit Nonrecurring																												
Equipment																												
Equipment Nonrecurring																												
Engineering Change Orders																												
Data																												
Training Equipment																												
Support Equipment																												
Other																												
Interim Contractor Support																												
Installation of Hardware																												
(PY) Eqpt ( Kits)																												
(FY96) Eqpt ( Kits)																												
(FY97) Eqpt (50 Kits)																												
(FY98) Eqpt (10 Kits)																												
(FY99) Eqpt ( Kits)																												
(FY00) Eqpt ( Kits)																												
(FY01) Eqpt ( Kits)																												
(FY 02) Eqpt ( Kits)																												
Total Installation Cost																												
Total Procurement Cost																												

Method of Implementation: User Installed

Contract Dates	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:	FY02:	TOTAL
Delivery Dates								
Installation Schedule								
Input								
Output								

## Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

**Description/Justification:** This modification will field a rotary, uninterruptible, transition power source (TPS) to condition commercial and generator power and provide a stable ride-through when transferring between the two power sources. This modification will significantly reduce maintenance costs and improve reliability to enable the system to meet its required operational availability rate of 96 percent as one of the major causes of transmitter component failures is power fluctuations which occur due to spike in commercial power and during the transition to and from generator power. Funding bought twelve kits in FY97, and will buy twelve kits in FY98, and four kits in FY99.

**Development Status/Major Development Milestones:** ECP was approved by the Program Management Council in Feb 96

Financial Plan: (\$ In Millions)																		
	PY		FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDT&E: None																		
Procurement																		
Kit Quantity																		
Installation Kits																		
Installation Kit Nonrecurring																		
Equipment																		
Equipment Nonrecurring																		
Engineering Change Orders																		
Data																		
Training Equipment																		
Support Equipment																		
Other																		
Interim Contractor Support																		
Installation of Hardware																		
(FY) Eqpt ( KIts)																		
(FY96) Eqpt ( KIts)																		
(FY97) Eqpt (12 KIts)																		
(FY98) Eqpt (12 KIts)																		
(FY99) Eqpt (4 KIts)																		
(FY00) Eqpt ( KIts)																		
(FY01) Eqpt ( KIts)																		
Total Installation Cost																		
Total Procurement Cost																		
Method of Installation: User Install																		
Contract Dates																		
Delivery Dates																		
Installation Schedule																		
PY																		
Input																		
Output																		

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Air Force Global Weather Center (AFGWC) Centralized Database Management System Upgrade, 94-008

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast Description/Justification: The CDMS Upgrade will provide a processing, storage, and connectivity upgrade to the current AFGWC CDMS. The current system (running at less than the full loading of databases it must support) is unable to meet all established production timelines. AFGWC is experiencing production impact due to the relatively slow response time of the current 386 based system and also due to the added loading of development maintenance testing. Combat and contingency support will be significantly degraded without upgrade. Near future requirements associated with Theater Battle Management, and Regionalization transition will not be supportable. AFGWC will be unable to continue migration toward an open systems environment. Without this upgrade AFGWC lacks the architecture necessary to support "smart warrior pull" of selected data sets. FY98 funds procure a complete modification kit.

Development Status/Major Development Milestones: Contract Awd Dec 97, Delivery Mar 98

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY 96	Qty	Cost	FY 97	Qty	Cost	FY 98	Qty	Cost	FY 99	Qty	Cost	FY 00	Qty	Cost	FY 01	Qty	Cost	FY 02	Qty	Cost	TOT AL	Qty	Cost
RDTE: None																											
Procurement																											
Kit Quantity																											
Installation Kits																											
Installation Kit Nonrecurring																											
Equipment																											
Equipment Nonrecurring																											
Engineering Change Orders																											
Data																											
Training Equipment																											
Support Equipment																											
Other																											
Interim Contractor Support																											
Installation of Hardware																											
(PY) Eqpt ( Kits)																											
(FY96) Eqpt ( Kits)																											
(FY97) Eqpt ( Kits)																											
(FY98) Eqpt (1 Kits)																											
(FY99) Eqpt ( Kits)																											
(FY00) Eqpt ( Kits)																											
(FY01) Eqpt ( Kits)																											
Total Installation Cost																											
Total Procurement Cost																											
Method of Installation: User installed.																											
Contract Dates																											
Delivery Dates																											
Installation Schedule																											
Input																											
Output																											

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## Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

**Description/Justification:** AFDIS/AFWIN is a source of weather information for DoD operations. The AFDIS/AFWIN computers run as subsystems to the Satellite Data Handling System (SDHS). The SDHS computers will undergo an upgrade in FY97. In order to lower maintenance costs, keep up with technology advancements, and improve warfighter driven requirements, the AFDIS/AFWIN computers will require new hardware and AFDIS/AFWIN software require new capabilities.

These capabilities include the ability to send and receive information to/from the Automated Weather Network, allow AFDIS/AFWIN to automatically send weather data to users, provide raw gridded data, and provide the capability to overlay various weather products. FY98 funds will procure the complete mod using a single integrating contractor.

Development Status/Major Development Milestones: CCB DEC 94 amended JUN 95, RFP OCT 97, Contract Award JAN 98

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: WSR-88D Radar Data Acquisition (RDA) Group Migration to Open System, 94-003B

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The WSR-88D transmitter is experiencing a higher than expected failure rate. This mod (94-003B) will take the proprietary software and hardware of the RDA and migrate them to open system standards. This will result in decreased retrofit costs since current single source components would be replaced with open standard hardware available from multiple vendors. In addition, software maintenance would be made more efficient and cost-effective. Vendor specific code would be replaced with modular code written to open system standards. Non-recurring equipment costs include non-recurring engineering (H/W and S/W). Kit funding will buy 1 first article kit in FY99, 10 kits in FY00 (including two for training systems at Keesler, AFB, MS), and 18 kits in FY01 (including one trainer for Keesler AFB).

Development Status/Major Development Milestones: PDR: 3QTR FY99; CDR: 1QTR FY00, Limited production contract: 3 QTR FY99; FSP contract: 2QTR FY00.

Financial Plan: (\$ in Millions)

	PY	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOT AL
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
RDT&E: None									
Procurement									
Kit Quantity									
Installation Kits									
Equipment									
Equipment Nonrecurring									
Engineering Change Orders									
Data									
Training Equipment									
Support Equipment									
Other									
Interim Contractor Support									
Installation of Hardware									
(PY) Eqpt ( Kits)									
(FY96) Eqpt ( Kits)									
(FY97) Eqpt ( Kits)									
(FY98) Eqpt ( Kits)									
(FY99) Eqpt (1 Kits)									
(FY00) Eqpt (10 Kits)									
(FY01) Eqpt (18 Kits)									
Total Installation Cost									
Total Procurement Cost									

Method of Installation: Depot Install

Contract Dates

Delivery Dates

Installation Schedule

Input

Output

Administrative Lead Time: 1 Months.

FY98: FY99: Apr 99

FY98: FY99: Sep 99

FY98: FY99: Dec 99

FY98: FY99: Mar 00

Production Lead Time: 5 Months

FY00: Jan 00

FY00: Jun 00

FY00: Oct 00

FY00: Mar 01

	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOTAL
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Input	1	2	3	4	1	2	3	4
Output	1	2	3	4	1	2	3	4



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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Solar Electro-Optical Network (SEON) Solar Maximum (SSM) Modification, 96-001

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The SSM modification finances critical elements of an integration effort meshing upgraded/new SEON components into a more capable, reliable, cost effective, and automated network of observing sites. Provides AF standard workstations for the SEON Sweep Frequency Radiometer (SFIR), Radio Solar Telescope Network (RSTN), and Solar Observing Optical Network (SOON). Provides automation of these integrated systems to allow remote operation from a centralized forecasting facility. Failure to procure this system will profoundly impact the ability of Space Forecast Center to detect and analyze solar flares for potential impacts to military communications, radar effectiveness, navigation, and other warfighting capabilities. FY98 funding will pay for nonrecurring integration development effort of SEON components, system and communications interfaces, standard AF workstations, software rehost, and RSTN SFIR automation. FY99 funding will pay for contractor installation of 1 kit. FY00 funding will pay for contractor installation of 3 more kits. The resulting kits will be contractor installed as turn-key systems.

Development Status/Major Development Milestones: RFP: 1QTR FY98, Source Selection 2QTR FY98, PDR: TBD, CDR: TBD, IOC: 4QTR FY99, FOC: 3QTR FY00

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY 96	Qty	Cost	FY 97	Qty	Cost	FY 98	Qty	Cost	FY 99	Qty	Cost	FY 00	Qty	Cost	FY 01	Qty	Cost	FY 02	Qty	Cost	TOT AL
RDT&E: None																									
Procurement																									
Kit Quantity																									
Installation Kits																									
Installation Kit Nonrecurring																									
Equipment																									
Equipment Nonrecurring																									
Engineering Change Orders																									
Data																									
Training Equipment																									
Support Equipment																									
Other																									
Interim Contractor Support																									
Installation of Hardware																									
(PY) Eqpt ( Kits)																									
(FY96) Eqpt ( Kits)																									
(FY97) Eqpt ( Kits)																									
(FY98) Eqpt ( 4 Kits)																									
(FY99) Eqpt ( Kits)																									
(FY00) Eqpt ( Kits)																									
(FY01) Eqpt ( Kits)																									
Total Installation Cost																									
Total Procurement Cost																									
Method of Installation: Contractor Installed.																									
Contract Dates																									
Delivery Dates																									
Installation Schedule																									
Input																									
Output																									

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Radio Solar Telescope Network (RSTN) Solar Radio Burst Locator (SRBL), 93-005

Models of Systems Affected: Comm-Electronics - Weather Observation and Forecast AN/FRR-95 Radio Solar Telescope Network (RSTN)

Description/Justification: The RSTN complements the companion Solar Observing Optical Network (SOON) in accurately defining the intensity and location of solar flare activity on the solar disk. The SRBL is required to replace components and improve capabilities of the aged and degraded RSTN which is undergoing a series of modifications to sustain it through solar maximum. SRBL will provide location of solar flare-associated radio bursts and will be fitted with an expanded frequency range, message generation and transmission, and unattended operations. The SRBL program sustainment engineering and modification for production unit purchases capabilities which if not funded will degrade the warfighter's ability to discriminate between solar induced effects and electronic jamming on missile radars; and degrades ability to provide warning of lethal and damaging radiation to high altitude aircraft, manned space activities, satellite operations, and space surveillance. FY98 funding will pay for 1 SRBL production unit. FY99 funding will pay for 3 SRBL production units. FY00 funding pays for contractor installation of the remaining 3 production SRBL kits.

Development Status/Major Development Milestones: Release production RFP 1QTR FY98, Source Selection 2QTR FY98, Contract Award 2QTR FY98, PDR TBD, CDR TBD, IOC 2Q FY99, FOC 4Q FY00

Financial Plan: (\$ in Millions)	PY	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOT AL
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
RDT&E: None									
Procurement									
Kit Quantity									
Installation Kits									
Equipment									
Equipment Nonrecurring									
Engineering Change Orders									
Data									
Training Equipment									
Support Equipment									
Other									
Interim Contractor Support									
Installation of Hardware									
(PY) Eqp ( Kits)									
(FY96) Eqp ( Kits)									
(FY97) Eqp ( Kits)									
(FY98) Eqp (1 Kits)									
(FY99) Eqp (3 Kits)									
(FY00) Eqp ( Kits)									
(FY01) Eqp ( Kits)									
Total Installation Cost									
Total Procurement Cost									
Method of Installation: Contractor Installed.									
Contract Dates									
Delivery Dates									
Installation Schedule									
Input									
Output									

Modification Title and No: Tactical Forecast System (TFS)/Automated Weather Distribution System (AWDS) - TFS/AWDS Merged System, TFS-2000, 95-010

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: Air Force Weather Service (AFWS) developed the Automated Weather Distribution System (AWDS) for peacetime fixed base weather support and the closely related Tactical AWDS (TAWDS) for tactical weather support. More recently AFW developed the Tactical Forecast System (TFS) to replace TAWDS; therefore, the older AWDS will be merged with the new TFS to form a new baseline, TFS-2000. To accomplish this merger, AWDS software must be merged with the TFS to form a single baseline and hosted on a common platform. The merged systems will have similar physical architecture and identical functionality. Benefits include reduced support and training costs and greater wartime effectiveness. The kits will be user installed. Hardware/software will be kitted as TCTOs. The hardware consists of USAF standard workstation equipment. Training sites (Keesler and CWF) will receive the same base kit as all other sites. FY98 funds procure 20 kits and supports hardware/software integration. FY99 funds procure 361 kits.

Development Status/Major Development Milestones: Contract Award: Mar 98

Financial Plan: (\$ in Millions)

PY	Qty	Cost	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOT AL
			Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost

RDT&E: None  
Procurement  
Kit Quantity  
Installation Kits  
Installation Kit Nonrecurring  
Equipment  
Equipment Nonrecurring  
Engineering Change Orders  
Data  
Training Equipment  
Support Equipment  
Other  
Interim Contractor Support  
Installation of Hardware  
(PY) Eqt ( Kits)  
(FY96) Eqt ( Kits)  
(FY97) Eqt ( Kits)  
(FY98) Eqt ( 20 Kits)  
(FY99) Eqt ( 361 Kits)  
(FY00) Eqt ( Kits)  
(FY01) Eqt ( Kits)  
Total Installation Cost  
Total Procurement Cost

20 0.1 361 1.1  
6.3

0.4 0.6

1.0

381 8.5

Method of Installation: User Installed

Production Lead Time: 6 Months

Administrative Lead Time: 3 Months.

FY97:

FY97:

FY98: Mar 98  
FY98: Sep 98

FY99: Oct 98  
FY99: Mar 99

FY00:

FY00:

PY	1	2	3	4	1	2	3	4	1	2	3	4	TOTAL

FY97:

FY97:

FY98

FY98

FY99

FY99

FY00

FY00

Input

Output

**Modification Title and No: AN/FMH-2 Automated Weather Distribution System (AWDS) Functional Areas, 93-008**

### Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

**Description/Justification:** This modification is required to upgrade the remaining AWSDS peripheral hardware to standard PCs. Benefits include greatly reduced support costs by eliminating costly CLS contract and improved functionality. The contract will be awarded in Jan 98. This modification buys 40 kits in FY96, 638 kits in FY99, and 1714 kits in FY00. The FY98 "Equipment nonrecurring" funds are for software/hardware integration. Hardware/software will be kitted as TCIO. Training sites (Kessler and CWF) will receive the same basic kit as all other sites.

## Development Status/Major Development Milestones: Contract Award: Jan 98

[illegible]

### Method of Installation: User Installed

Contract Dates

**Contract Dates**

**Installation Schedule**

**SERIES**

input

### Output

**Administrative Lead Time: 1 Months.**

FY98: Jan 98

FY98: Sep 98

100

4 1 2 3

**Production Lead Time: 8 Months**

FY00: Oct 99

FY00: Nov 99

4 1 2 3

TOTAL

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Air Force Global Weather Center (AFGWC) Weather Information Processing System (WIPS) Upgrade, 95-003

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The WIPS ingests and processes over 140,000 time-sensitive weather reports each day. These reports, when decoded, validated and processed, form the analyses of current weather that become the foundation of virtually every environmental product issued by AFGWC. This program will upgrade the hardware and software in order to meet future operational requirements to include the Theater Battlefield Management (TBM) data flow. FY99 funds and FY00 funds each procure one kit respectively, hardware replacement elements (equipment nonrecurring), and contractor installation/software rehost.

Development Status/Major Development Milestones: Contract Award: Jan 99

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY 96	Qty	Cost	FY 97	Qty	Cost	FY 98	Qty	Cost	FY 99	Qty	Cost	FY 00	Qty	Cost	FY 01	Qty	Cost	FY 02	Qty	Cost	TOT AL	Qty	Cost
RDT&E: None																											
Procurement																											
Kit Quantity																											
Installation Kits																											
Installation Kit Nonrecurring																											
Equipment																											
Equipment Nonrecurring																											
Engineering Change Orders																											
Data																											
Training Equipment																											
Support Equipment																											
Other																											
Interim Contractor Support																											
Installation of Hardware																											
(PY) Eqpt ( Kits)																											
(FY96) Eqpt ( Kits)																											
(FY97) Eqpt ( Kits)																											
(FY98) Eqpt ( Kits)																											
(FY99) Eqpt (1 Kits)																											
(FY00) Eqpt (1 Kits)																											
(FY01) Eqpt ( Kits)																											
Total Installation Cost																											
Total Procurement Cost																											
Method of Installation: Contractor Installed.																											
Contract Dates																											
Delivery Dates																											
Installation Schedule																											
Input																											
Output																											

UNCLASSIFIED  
EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: WSR-88D Principle User Processor (PUP) Replacement - Open System Radar Product Generator (RPG) Migration, 94-004A

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: The Radar Product Generator (RPG) is the primary processor that converts base radar data into displayable products. Both components rely on proprietary software and hardware leading to unnecessarily high hardware and software maintenance/repair costs. This modification will migrate the RPG software to open system standards and port it to commercial off-the-shelf multiple vendor hardware platforms. Migration to an open system will result in more cost-effective maintenance and logistics. It will reduce life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance by enabling easier integration of new algorithms into the system software, and provide a capability for direct interface to current and planned weather processing and display systems (AWDS and MOC). FY98 buys 1 kit and FY99 buys 8 kits, and FY00 completes the modification procurement with 20 kits.

Development Status/Major Development Milestones: CCB approval of CCR: Jun 96, PDR: 3QTR FY97; CDR: 1QTR FY98, FSP Contract: 1QTR FY99

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY 96	Qty	Cost	FY 97	Qty	Cost	FY 98	Qty	Cost	FY 99	Qty	Cost	FY 00	Qty	Cost	FY 01	Qty	Cost	FY 02	Qty	Cost	TOT AL	Qty	Cost
RDT&E: None																											
Procurement																											
Kit Quantity																											
Installation Kits																											
Equipment																											
Equipment Nonrecurring																											
Engineering Change Orders																											
Data																											
Training Equipment																											
Support Equipment																											
Other																											
Interim Contractor Support																											
Installation of Hardware																											
(PY) Eqt ( Kits)																											
(FY96) Eqt ( Kits)																											
(FY97) Eqt ( Kits)																											
(FY98) Eqt ( 1 Kits)																											
(FY99) Eqt ( 8 Kits)																											
(FY00) Eqt ( 20 Kits)																											
(FY01) Eqt ( Kits)																											
Total Installation Cost																											
Total Procurement Cost																											

Production Lead Time: 6 Months

Administrative Lead Time: 1 Months.

Method of Installation: Depot Installed.

Contract Dates	FY98: Mar 98	FY99: Dec 98	FY00: Jan 00	FY00: May 00	FY 01	FY 02	TOTAL
Delivery Dates							
Installation Schedule							
Input	1	2	3	4	1	2	29
Output	1	4	4	5	5	5	29

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## Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

**Description/Justification:** The Principle User Processor (PUP) workstation is the primary vehicle for displaying NEXRAD data. The Radar Product Generator (RPG) is the primary processor that converts base radar data into displayable products. Both components rely on proprietary software and hardware leading to unnecessarily high hardware and software maintenance/repair costs. This modification will migrate the PUP software to open system standards and port it to commercial off-the-shelf multiple vendor hardware platforms. Migration to an open system PUP will result in more cost-effective maintenance and logistics. It will reduce life-cycle costs, provide a growth path to support greater processing capacity as requirements grow, improve efficiency of software maintenance by enabling easier integration of new algorithms into the system baseline, and provide a capability for direct interface to current and planned weather processing and display systems (AWDS and MOC). FY88 funds procure 1 kit, FY89 funds procure 45 kits, and FY00 funds procure 66 kits, FY01 funds complete procurement with 40 kits.

Development Status/Major Development Milestones: CCR submitted Aug 96. CCB approval of CCR Sep 96.

[illegible]

**Method of Installation:** Depot Installed.

		Administrative Lead time: 1 month.										Production Lead time: 6 months	
		FY97:		FY98:		FY98:		FY99:		FY00:		FY01:	
		Contract Dates		Feb 98		Aug 98		Dec 98		Jan 00		Jan 01	
		Delivery Dates											
		Installation Schedule		FY 98		FY 99		FY 00		FY 01		FY01: May 01	
		PY		FY 98		FY 99		FY 00		FY 01		TOTAL	
	Input	1	2	3	4	1	2	3	4	1	2	3	4
					1	22	23	33	33	20	20	20	152
	Output				1	22	23	33	33	20	20	20	152



UNCLASSIFIED  
EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Tactical Meteorological (TACMET) Observing Equipment Upgrade, 95-011

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification provides the means to allow Combat Command and Control Elements automatic access to current and representative surface weather observations. It provides the required elements of cloud height, surface visibility, present weather, wind speed and direction, wind gusts, variable wind direction, temperature, dew point, relative humidity, barometric pressure (sea-level pressure and station pressure), altimeter setting, density altitude, and precipitation rate and amount. Additional sensors provide soil temperature, soil moisture, nighttime illumination, and lightning detection. The existing TACMET observing systems are not capable of measuring all required parameters, are error prone, and are too manpower intensive to operate efficiently. Additionally, these systems are not interoperable with customer C4I systems. FY98 funds procure 32kits, FY99 funds procure 40 kits, and FY00 funds procure 234 kits. Kits will be user installed.

Development Status/Major Development Milestones: Contract Awd: Feb 98

Financial Plan: (\$ in Millions)	PY	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOT AL
RDT&E: None									
Procurement									
Kit Quantity									
Installation Kits									
Installation Kit Nonrecurring									
Equipment									
Equipment Nonrecurring									
Engineering Change Orders									
Data									
Training Equipment									
Support Equipment									
Other									
Interim Contractor Support									
Installation of Hardware									
(PY) Eqt ( Kits)									
(FY96) Eqt ( Kits)									
(FY97) Eqt ( Kits)									
(FY98) Eqt ( 32 Kits)									
(FY99) Eqt (40 Kits)									
(FY00) Eqt ( 234 Kits)									
(FY01) Eqt ( Kits)									
Total Installation Cost									
Total Procurement Cost									
Method of Installation: User Installed.									
Contract Dates									
Delivery Dates									
Installation Schedule									
Input									
Output									

Modification Title and No: AN/FMQ-7 Solar Observing Optical Network Enhancement to Improved Solar Observing Optical Network (ISOON), 96-031

Models of Systems Affected: Comm-Electronics - Weather Observation/Forecast

Description/Justification: This modification retrofits the 1960's technology optical telescope to decrease maintenance costs and to keep the system operationally effective as various components of the current system are becoming unsupportable. The SOON is the only means of providing real time reporting of solar flare activity. The Space Forecast Center requires the ISOON's accurate data as input to their forecast models. Accurate solar activity warnings are vital to effective space missions. Any decrease in accuracy will degrade support to the war fighter. FY99 funding will procure 1 ISOON production unit, FY00 funds procure 3 ISOON production units.

Development Status/Major Development Milestones: Release production RFP: 2QTR FY99, Source Selection: 2QTR FY99, Contract Awd: 3QTR FY99, PDR: TBD, CDR: TBD, IOC: 4QTR FY01, FOC: 3QTR FY02

Financial Plan: (\$ in Millions)

PY	Qty	Cost	FY 96	Qty	Cost	FY 97	Qty	Cost	FY 98	Qty	Cost	FY 99	Qty	Cost	FY 00	Qty	Cost	FY 01	Qty	Cost	FY 02	Qty	Cost	TOT AL
----	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	-------	-----	------	--------

RDT&E: None

Procurement

Kit Quantity

Installation Kits

Installation Kit Nonrecurring

Equipment

Equipment Nonrecurring

Engineering Change Orders

Data

Training Equipment

Support Equipment

Other

Interim Contractor Support

Installation of Hardware

(PY) Eqpt ( Kits)

(FY96) Eqpt ( Kits)

(FY97) Eqpt ( Kits)

(FY98) Eqpt ( Kits)

(FY99) Eqpt ( 1 Kits)

(FY00) Eqpt ( 3 Kits)

(FY01) Eqpt ( Kits)

Total Installation Cost

Total Procurement Cost

Method of Installation: Contractor Installed.

Contract Dates FY96:

Delivery Dates FY96:

Installation Schedule PY

FY 98

FY 99

FY 00

FY 01

FY 02

TOTAL

Input

Output

Administrative Lead Time: Months.

FY98: FY99: Apr 99

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

FY98: FY99: Jan 01

UNCLASSIFIED  
EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Tech Control Upgrade, Part 2 (Matrix Switches) (Mod # S529382)

Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: An upgrade is required to replace the existing Bylex AS 240 Time Division Multiplexors which are slow, becoming unsupportable, and inadequate to support the necessary circuit types (T-1, EIA-530, or LAN). Growth capacity is limited and the design is a "blocking type switch." The new switch will be "non-blocking" and will be able to handle the additional circuit growth capacity. Overall approach will optimize a distributed architecture to the maximum extent possible while ensuring compatibility with current Technical Control systems and processors. FY98 funding buys one suite for the SWSC (testing and development) and FY99 funding buys three for the operational site. Overall impact of not funding this effort is decreased message flow handling space, air, and missile warning traffic.

Development Status/Major Development Milestones: CCB Approval: Mar 96, Evaluation complete: Jul 97, Contract Award: Jan 98, Architecture selected: Apr 98, SWSC Install: Jul 98.

Financial Plan: (\$ in Millions)	PY	FY96		FY97		FY98		FY99		FY00		FY01		FY02		TOTAL	
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RDTE: None																	
PROCUREMENT:																	
Kit Quantity																	
Installation Kits																	
Installation Kit Nonrecurring																	
Equipment																	
Equipment Nonrecurring																	
Engineering Change Orders																	
Data																	
Training Equipment																	
Support Equipment																	
Other																	
Interim Contractor Support																	
Installation of Hardware																	
(PY) Eqpt ( Kits)																	
(FY96) Eqpt ( Kits)																	
(FY97) Eqpt ( Kits)																	
(FY98) Eqpt (1 Kits)																	
(FY99) Eqpt ( 3 Kits)																	
(FY00) Eqpt ( Kits)																	
(FY01) Eqpt ( Kits)																	
(FY02) Eqpt ( Kits)																	
Total Installation Cost																	
Total Procurement Cost																	

Method of Implementation: Contractor	FY96:	FY97:	FY98:	FY99:	FY00:	FY01:	FY02:	TOTAL
Contract Dates:								
Delivery Date:								
Installation Schedule:								
Input								
Output								

UNCLASSIFIED  
EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: SCIS VAX FT410 (Control Number S604620)  
Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: The VAX FT410 is forward processing equipment that provides secure voice and data link to and from sensors, forward users and correlation centers. The FT410 is no longer manufactured and support will end in FY00. Replacement is required to ensure uninterrupted secure communications for the missile warning systems. Replacement will also ensure common operating environment compliance. The nation's missile warning system is dependent upon this secure communications system to provide the necessary data from sensors to the forward users and the correlation centers. FY99 funding is required to purchase 8 equipment suites, FY01 purchases 6 equipment suites.

Development Status/Major Development Milestones: Requirement validated Feb 96. Study complete Jul 97. Contract Award Jan 99. Architecture Selected Feb 99.

Financial Plan: (\$ in Millions)

	PY	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOTAL
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
RDT&E: None									
PROCUREMENT									
Kit Quantity									
Installation Kit									
Installation Kit Nonrecurring									
Equipment									
Equipment Nonrecurring									
Engineering Change Order									
Data									
Training Equipment									
Support Equipment									
Other									
Interim Contractor Support									
Installation of Hardware									
(PY) Equip ( 0 Kit)									
(FY95) Equip ( 0 Kits)									
(FY96) Equip ( 0 Kits)									
(FY97) Equip ( 0 Kits)									
(FY98) Equip ( 0 Kits)									
(FY99) Equip ( 8 Kits)									
(FY00) Equip ( 8 Kits)									
(FY01) Equip ( 6 Kits)									
(FY02) Equip ( Kits)									
Total Installation Cost									
Total Procurement Costs									

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

Administrative Lead Time: 3 months  
FY01: Jan 01  
FY01: Jun 01

FY98: Jan 99  
FY99: May 99

FY00: Jan 00  
FY00: Jun 00

Production Lead Time: 4 Months

Installation Schedule:	PY	FY97	FY98	FY99	FY00	FY01	TOTAL
	1	2	3	4	1	2	
Input							
Output							

UNCLASSIFIED  
EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Video Display System (VDS) Monitor Replacement (S604628)

Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: The VDS monitors are becoming unsupportable because they are no longer manufactured. Items are being replaced by spares as they break and the inventory is running low. This system will incur increased maintenance cost and will not be able to support the CMC mission without this modification. The current HAVE DUNGEON effort, a technical survey of available monitor capabilities, multi-display options for each screen, and the resulting software and display characteristic changes will help direct the final solution set as it applies to Common Operating Environment (COE) and the requirements of the warning display monitors. FY99 funding purchases 1 development suite and 36 VDS systems; FY00 and FY01 funds purchase and install 16 and 18 additional operational monitors.

Development Status/Major Development Milestones: Requirement validated Mar 96. Study complete Jul 97. Contract Award Jan 99.

Financial Plan: (\$ in Millions)

	PY	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
RD&E: None																	
PROCUREMENT																	
Kit Quantity																	
Installation Kit																	
Installation Kit Nonrecurring																	
Equipment								36	3.2	16	1.4	18	1.6			70	6.3
Equipment Nonrecurring									0.6		0.2		0.1				0.9
Engineering Change Order																	
Data									0.2								0.2
Training Equipment																	
Support Equipment																	
Other																	
Interim Contractor Support									0.2		0.2		0.1				0.5
Installation of Hardware																	
(PY) Equip ( 0 Kit)																	
(FY(95) Equip ( 0 Kits)																	
(FY(96) Equip ( 0 Kits)																	
(FY(97) Equip ( 0 Kits)																	
(FY(98) Equip ( 0 Kits)																	
(FY(99) Equip ( 36 Kits)								36	0.4		16	0.2	18	0.2		36	0.4
(FY(00) Equip ( 16 Kits)																16	0.2
(FY(01) Equip ( 18 Kits)																18	0.2
(FY(02) Equip ( 0 Kits)																	0.0
Total Installation Cost								36	0.4	16	0.2	18	0.2			70	0.7
Total Procurement Costs								36	4.6	16	2.0	18	1.9			70	8.4

	PY	FY 96		FY 97		FY 98		FY 99		FY 00		FY 01		FY 02		TOTAL	
		Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost
Method of Implementation: Contractor																	
Contract Dates:																	
Delivery Date:																	
Installation Schedule:																	
Input																	
Output																	

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: Electronic Warfare Workstation (S604622)

Models of Systems Affected: Cheyenne Mountain Complex

Description/Justification: The POWER system supports threat determination and assessment at the TS level for the Space Control Center. The current capability is hosted on a platform that is not cost effective. This platform must be upgraded to meet the Reliability, Maintainability, and Availability (RMA) requirements consistent with the space control mission. Without this upgrade, the accuracy and completeness of the electronic warfare and radio frequency interference capability will be hampered. The overall impact includes the loss of discriminating space threats and the determination of satellite degradation. Additionally, the radio frequency interference processing will be hampered and limited to after-the-fact analysis using inaccurate and incomplete data. FY98 funds procure 2 kits, FY99 funds procure 1 kit.

Development Status/Major Development Milestones: Requirement validated Feb 96. Study complete Jul 97. Contract Award Jan 99. Architecture Selected Feb 99.

Financial Plan: (\$ in Millions)

	PY	FY 96	FY 97	FY 98	FY 99	FY 00	FY 01	FY 02	TOTAL
	Qty	Cost	Qty	Cost	Qty	Cost	Qty	Cost	Qty
RDT&E: None									
PROCUREMENT									
Kit Quantity									
Installation Kit									
Installation Kit Nonrecurring									
Equipment									
Equipment Nonrecurring									
Engineering Change Order									
Data									
Training Equipment									
Support Equipment									
Other									
Interim Contractor Support									
Installation of Hardware									
(PY) Equip ( 0 Kit)									
(FY(95) Equip ( 0 Kits)									
(FY(96) Equip ( 0 Kits)									
(FY(97) Equip ( 0 Kits)									
(FY(98) Equip ( 2 Kits)									
(FY(99) Equip ( 1 Kits)									
(FY(00) Equip ( 0 Kits)									
(FY(01) Equip ( 0 Kits)									
(FY(02) Equip ( 0 Kits)									
Total Installation Cost									
Total Procurement Costs									

Method of Implementation: Contractor

Contract Dates:

Delivery Date:

Administrative Lead Time: 3 months

FY99: Jan 99

FY00:

Production Lead Time: 3 Months

FY00:

FY01:

FY02:

FY03:

FY04:

FY05:

FY06:

FY07:

FY08:

FY09:

TOTAL

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EXHIBIT P3A  
INDIVIDUAL MODIFICATIONS

FEBRUARY 1997

Modification Title and No: BMEWS - Clear Alaska Radar Upgrade

Models of Systems Affected: Ballistics Missile Early Warning System (BMEWS)

Description/Justification: The Clear Radar Upgrade (CRU) will be upgrading the existing Ballistic Missile Warning System (BMEWS) radar located at Clear Air Station (CAS), Alaska. The existing radar is experiencing high O&M costs (\$45M/year) and has several technical deficiencies. CRU will correct deficiencies and reduce O&M costs by replacing the existing mechanical radar with a Solid State Phased Array Radar (SSPAR). The SSPAR will be built using existing array faces and equipment from the PAVE PAWS radars at Robins AFB, GA and Eldorado TX locations. This approach will allow for the recall of Robins and Eldorado systems and for the continued use of the power plant at CAS. The program is considered low technical risk due to the fact the BMEWS-Thule Greenland SSPAR was built with the same methodology, except for the reuse of array faces and equipment strings. Lack of funds to support this modification will result in more outages from failed obsolete components, increasing O&M costs, deficiencies and inability to support the National Missile Defense (NMD) mission. FY98 funds procure the hardware suite to support the radar facility. FY99 funds procure the Face 1 equipment and supporting hardware string. FY00 funds procure Face 2 equipment and supporting hardware string.

Development Status/Major Development Milestones: Approval received Mar 96. Evaluation complete: Jul 97. Contract Award: Jan 98. Architecture selected: Apr 98.

Financial Plan: (\$ in Millions)	PY	Qty	Cost	FY96	Qty	Cost	FY97	Qty	Cost	FY98	Qty	Cost	FY99	Qty	Cost	FY00	Qty	Cost	FY01	Qty	Cost	TOTAL	Qty	Cost
RDTE:																								
PROCUREMENT:																								
Kit Quantity																								
Installation Kits																								
Installation Kit Nonrecurring																								
Equipment																								
Equipment Nonrecurring																								
Engineering Change Orders																								
Data																								
Training Equipment																								
Support Equipment																								
Other																								
Interim Contractor Support																								
Installation of Hardware																								
(PY) Eqpt ( Kits)																								
(FY96) Eqpt ( Kits)																								
(FY97) Eqpt ( Kits)																								
(FY98) Eqpt (1 Kits)																								
(FY99) Eqpt (1 Kits)																								
(FY00) Eqpt (1 Kits)																								
(FY01) Eqpt ( Kits)																								
(FY02) Eqpt ( Kits)																								
Total Installation Cost																								
Total Procurement Cost																								

Method of Implementation: Contractor  
Contract Dates: FY96: FY97: FY98: Jan 98 FY98: Aug 98 FY99: Jan 99 FY99: Aug 99 FY00: Jan 00 FY00: Aug 00  
Delivery Date: Production Lead Time: 8 Months

Installation Schedule:																							
	FY97				FY98				FY99				FY00				TOTAL						
	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3	4	1	2	3
Input				1				1				1				1				1			3
Output													1										3



**OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT**

DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE		FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: BASE/ALC CALIBRATION PACKAGE						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	\$10.182	\$13.956	\$10.468	\$10.856	\$9.918	\$10.314	\$9.828	\$10.047

1. The Base/ALC Metrology and Calibration (METCAL) equipment program provides calibration standards grouped in a series of generic measurement packages or consoles (electrical, mechanical and systems equipment) to all major Air Force activities having a base Precision Measurement Equipment Laboratory (PMEL). PMELs calibrate and repair equipment used to maintain aircraft, missiles, communications and other ground systems. The PMEL is the direct link between the weapon system and the National Institute of Standards and Technology (NIST). This link ensures the systems used by the operational forces perform their primary mission of delivering weapons on target. Presently there are 85 PMELs and eight Field Assistance Teams for Calibration (FASTCALs) worldwide. Funding for these calibration standards is required as all major aircraft depend heavily on offensive and defensive microwave avionics that must be calibrated to function properly in a wartime as well as in a training environment. All aircraft engines and airframes also require this calibration support. Additionally, this budget line supports space, airborne and ground communications/electronics systems such as MILSTAR. The FY98/99 program includes funding for 81 PMELs and eight FASTCALs remaining after base closures.

2. A group of certified calibration standards is required at each base PMEL to assure accurate traceable measurements are made in the basic areas recognized by the NIST. These basic groups of standards enable each Air Force activity to attain standardized measurement and optimum self-sufficiency in the calibration and maintenance of critical precision measurement equipment required for daily base operational capability. The standards packages must be constantly surveyed and upgraded to stay current with the measurement art. A major breakthrough in metrology capability dictates a complete review of a measurement package to assure a cost effective approach to calibration and maintenance. In addition, as new and sophisticated systems enter the Air Force inventory, it is necessary to augment selected PMELs with special calibration standards or auxiliary equipment, the characteristics of which are critical to the systems supported.

3. The FY98 budget includes \$8.9 million in contract options. Significant options include \$4.1 million for the High Power Amplifier Systems, \$0.744 million for Source for Calibration of Identification Friend or Foe/Tactical Air Navigation (IFF/TACAN) Test Sets, \$1.6 million for Digital Sampling Oscilloscope and Standard, \$0.8 million for the ILS/Modulation meter, \$0.9 million for the Portable Pressure Calibrator. Additional contract options include Portable Automatic Test Equipment Calibrators (PATEC) Local Oscillators, Gage Block Flatness Interferometers, and Flow Calibration Systems. \$1.1 million will be used to procure new PATECs. Remaining FY98 funds will purchase small dollar items in the Electrical and Mechanical packages. With the downsizing of the PMELs, more emphasis on transportable/mobile capabilities to serve the customers will be required in FY99 to support field locations that do not have on-site PMEL support. The FY99 budget consists of \$5.4 million for new PATECs. Also being procured are Primary Gas Flow Standards for \$0.6 million, Tapered Thread Measuring Machine for \$0.5 million, and \$1.0 million for COAX Power Measurement Standards. The rest of the budget consists of other small procurements, and \$2.7 million in options, including \$0.7 million for PATEC Global Positioning System (GPS) Receivers, \$0.8 million for Precision Manometer, \$0.3 million for the Torque Wrench Calibrator, \$0.1 million Liquid Flow System Upgrades, \$0.2 million Low Flow Liquid Standard, and \$0.1 for the High Gas Flow System.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE:					
OPAF/Other Base Maintenance and Support Equipment			BASE/ALC CALIBRATION PACKAGE					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. P-5A contracting data is provided for those procurements exceeding \$2 million.

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**UNCLASSIFIED**

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME BASE/ALC CALIBRATION PACKAGE		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT											
Weapon System Cost		FY 1996		FY 1997		FY 1998		FY 1999			
Elements		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	TOTAL COST

A. Electrical Equipment Package	A			6,245				7,366			6,866			3,165
B. Mechanical Equipment Package	A			2,269				3,851			2,370			2,796
C. Systems Equipment Package	A			1,668				2,739			1,232			4,895
TOTAL				10,182				13,956			10,468			10,856

P-1 SHOPP LIST ITEM NO. 81		PAGE NO. 3	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					A. DATE	
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					BASE/ALC CALIBRATION PACKAGE					FEBRUARY 1997	
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (\$K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

### SOURCE FOR CALIBRATION OF IFF/TACAN TEST SETS

FY96	SIERRACOM DIV OF SIERRA NETWORKS, INC HOPKINTON, MA	C/FFP	AFMC/ AFMETCAL DET 1	NOV 95	AUG 97	5	278				
FY97	UNKNOWN	C/FP	AFMC/ AFMETCAL DET 1	JUL 97	OCT 97	60	38	YES	NO		
FY98	UNKNOWN	OPT/FP (2nd Yr)	AFMC/ AFMETCAL DET 1	JUN 98	OCT 98	20	37	YES	NO		
FY99	UNKNOWN	OPT/FP (3rd Yr)	AFMC/ AFMETCAL DET 1	DEC 98	FEB 99	7	37	YES	NO		

### D. REMARKS

- <sup>1</sup> High Power High Frequency (HPHF)  
<sup>2</sup> High Power Medium Frequency (HPMF)  
<sup>3</sup> Low Power Medium Frequency (LPMF)

Exhibit P-5a Procurement History and Planning

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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			BASE/ALC CALIBRATION PACKAGE							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (\$K)	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

HIGH POWER AMPLIFIER SYSTEM	FY94	POWER SYSTEMS TECHNOLOGY, INC MELVILLE, NY	C/FFP	AFMC/ AFMETCAL DET 1	JAN 96	FEB 97	1 LPMF 1 HPMF 1 HPHF	205 385 515		
	FY97	UNKNOWN	C/FP	AFMC/ AFMETCAL DET 1	APR 97	JUL 97	4 LPMF 4 HPMF 2 HPHF	103 254 436	YES YES YES	NO NO NO
	FY98	UNKNOWN	OPT/FP (2nd Yr)	AFMC/ AFMETCAL DET 1	OCT 97	JAN 98	7 LPMF 7 HPMF 4 HPHF	93 245 420	YES YES YES	NO NO NO

D. REMARKS			P-1 SHOPP LIST ITEM NO.		PAGE NO.		Exhibit P-5a Procurement History and Planning	
<sup>1</sup> High Power High Frequency (HPHF) <sup>2</sup> High Power Medium Frequency (HPMF) <sup>3</sup> Low Power Medium Frequency (LPMF)			81		5			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			BASE/ALC CALIBRATION PACKAGE							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST (\$K)	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
LOCAL OSCILLATOR UPGRADE FOR PATEC	FY96	NAVY/ANRITSU WILTRON SALES CO. MORGAN HILL, CA	MIPR/C/FFP	AFMC/ AFMETCAL DET 1	APR 96	AUG 96	154	17.5		
	FY97	NAVY WILTRON SALES CO MORGAN HILL, CA	MIPR/C/FFP	AFMC/ AFMETCAL DET 1	OCT 96	DEC 96	147	17.5		
D. REMARKS										
<sup>1</sup> High Power High Frequency (HPHF) <sup>2</sup> High Power Medium Frequency (HPMF) <sup>3</sup> Low Power Medium Frequency (LPMF)										
			P-1 SHOPP LIST ITEM NO. 81	PAGE NO. 6	Exhibit P-5a Procurement History and Planning					

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE			
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: PRIMARY STANDARDS LABORATORY PACKAGE						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	\$1.368	\$1.562	\$1.665	\$1.562	\$1.669	\$1.832	\$1.842	\$1.916

- The Primary Standards Laboratory Package consists of measurement standards required by the Air Force Primary Standards Laboratories (AFPSLs). The Air Force standards and auxiliary measurement equipment is grouped in five packages: (A) Electrical Equipment Package, (B) Mechanical Equipment Package, (C) Photonics and Nucleonics Equipment Package, (D) Physical Equipment Package, and (E) Systems Equipment Package. These standards and equipment enable the AFPSLs to maintain a disciplined system of measurement control to assure standardized calibration of all precision measurement equipment at precision measurement equipment laboratories (PMELs) supporting aircraft, missiles and ground communications systems.
- The AFPSL supports the following areas:
  - All Air Force PMELs by providing the master calibration capability traceable to the National Institute of Standards and Technology.
  - The Inertial Guidance Systems (IGS) Repair Facility. This includes precise azimuth alignment of inertial guidance systems being prepared.
  - Specialized test and calibration support. This includes development of infrared standards of radiance and provides stable platform and dynamic test capability not only for the Air Force IGS but also for specialized tests for the Army and Navy programs.
- Although the AFPSL calibration services and the generation of calibration technical orders were privatized in place (PIP), funding for new and enhanced calibration standards will remain an Air Force priority in accordance with the PIP contract. Management of the Air Force Metrology and Calibration (AFMETCAL) Program at Newark AFB, Ohio, remains an Air Force organic program. Air Force responsibilities include the identification and development of Air Force metrology and calibration requirements, calibration procedures development and management, and budgeting and acquisition of calibration standards. As more reliance is placed on high technology weapons systems for our national security as a means of offsetting force reductions, the need for accurate and precise measurements becomes increasingly important. Also, according to the Air Force Legal Services Agency, if it is determined that a mishap occurs as a result of the Air Force's failure to properly calibrate test measurement and diagnostics equipment (TMDE) in accordance with published calibration schedules, negligence could be established against the Air Force resulting in a potential award of damages against the United States. Failure to comply with a published calibration schedule and testing can constitute negligence and expose the Air Force to liability.
- Major FY97 procurements are primarily for the Electrical and Physical Equipment Packages. FY98 procurements are primarily focused in the Mechanical, Photonics/Nucleonics and Physical Equipment Packages, and FY99 procurements are primarily focused in the Photonics/Nucleonics and Physical Equipment Packages.

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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE FEBRUARY 1997				
APPROPRIATION/BUDGET ACTIVITY OPAF/ OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE PRIMARY STANDARDS LABORATORY PACKAGE							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)									

## Major FY98 Procurements:

- MECHANICAL EQUIPMENT PACKAGE:** Ultrasonic Manometer (\$480 thousand). This system will allow more accurate and faster measurements of low pressure which directly affects safety of flight conditions.
- PHOTONICS AND NUCLEONICS PACKAGE:** Fiber Optic Data Communication Link (\$148 thousand), and the Hetrodyne Optical Sweeper (\$100 thousand). The Fiber Optic Data Communication Link will allow support of all fiber optic systems rather than at the present component level. The Hetrodyne Sweeper will be used to calibrate the frequency response of light receiving elements and circuits used in high-speed, large capacity, optical communication systems.
- PHYSICAL PACKAGE:** Thread Measuring Machine (\$200 thousand) and the Ring Gage Measuring System (\$200 thousand). The Thread Measuring Machine is required to do initial calibrations used for mastering thread form gages. This capability does not currently exist in the Air Force Metrology Calibration Program. Procurement of the Ring Gage Measuring System will result in increased capability in the calibration accuracy of ring gages.

## Major FY99 Procurements:

- PHOTONICS AND NUCLEONICS PACKAGE:** C-Series Calorimeter System (\$150 thousand). Supports measurements of continuous wave laser power and energy meters.
- PHYSICAL PACKAGE:** Measuring Machine Upgrade (\$250 thousand) and the Phase Interferometer Upgrade (\$310 thousand). The Measuring Machine will upgrade the currently used Moore M3 Measuring Machine used to calibrate angle plates, box parallels, v-blocks, and sine plates. The Phase Interferometer will upgrade the Zygo Phase Interferometer used to calibrate optical flats and mirrors and give the AFPSL metric capabilities

5. ANG/AFR: N/A

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997			
OFA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		PRIMARY STANDARDS LABORATORY PACKAGE			Multiple Vendors						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

A. Mechanical Equipment Package	A		162				213				480			100
B. Photonics and Nucleonics Equipment Package			265				247				398			584
C. Physical Equipment Package			738				534				460			575
D. Electrical Equipment Package	A		150				536				185			280
E. Systems Equipment Package	A		53				32				142			23
TOTAL			1,368				1,562				1,665			1,562

P-1 SHOPP LIST ITEM NO. 82		PAGE NO. 9	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE( )					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		ITEMS LESS THAN \$2,000,000 (TEST EQUIPMENT)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
							FY 2003
COST (In Mil)	\$10.983	\$12.177	\$9.627	\$8.382	\$9.546	\$9.278	\$8.855
							\$9.131

1. This program includes hundreds of test and measurement equipment items used throughout the Air Force. The equipment is used in Precision Measurement Equipment Laboratories (PMEs), Avionics Integrated Support Facilities (AISFs), Automated Test Support Facilities, Centralized Radio Shops, Radio/Radar Repair Shops, and Maintenance Shops. This equipment is also used to calibrate aircraft Avionics Intermediate Shop equipment.

2. There are approximately 7,500 individual test items procured in this line. All have an annual procurement value of less than \$2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

NOMENCLATURE	NSN	QTY	FY98	DOLLARS	QTY	FY99	DOLLARS
Signal Generator	6625-01-380-5036	85		1.522	32		.585
Spectrum Analyzer	6625-01-365-3980	100		1.466	40		.600
Spectrum Analyzer	6625-01-289-0854	93		1.799	100		1.977
Digital Power Meter	6625-01-407-6262	240		1.440	67		.402
Oscillator Sweep Synthesizer	6625-01-349-9277	111		1.987	111		1.987
Oscilloscope System	6625-01-241-5276	7		.075	2		.022
Oscilloscope System	6625-NS-L	0		0.00	83		1.628
Major Dollars (\$100 - \$300 Thousand)							
Federal Stock Class (FSC) 6625 Elect Properties				.892			.674
(Over 150 items)							
Minor Dollars (\$0 - \$100 Thousand)							
FSC 5985				.232			.275
FSC 6625				.214			.232
Total				9.627			8.382

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE	
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment				FEBRUARY 1997	
P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (TEST EQUIPMENT)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY					
COST (In Mil)					
				FY 2001	FY 2002
					FY 2003

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			.088			.006
FY97			2.763			.546
FY98			2.255			.347
FY99			1.499			.046

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE									
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE:				NIGHT VISION GOGGLES									
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003	
QUANTITY															
COST (In Mil)		\$0.969		\$3.642		\$2.371		\$7.086		\$2.968		\$3.512		\$4.047	

Modern warfare has led to an increase in airborne combat under the cover of darkness. Night missions include ground operations, takeoffs and landings in complete darkness, lights-off air refueling and visual acquisition and identification of enemy targets hidden under the night sky. Night vision goggles provide the capability to see in night/low visibility conditions. The goggles are helmet mounted, battery and/or aircraft powered, and weigh approximately 12 to 30 ounces, and are essential for night and low visibility combat rescue missions and special operations.

1. The following aircrew and groundcrew goggles are procured in this budget line:

a. **AIRCREW GOGGLES (AN/AVS-6):** The aircrew goggle (AN/AVS-6) is specifically designed for aircrews to permit night flying and target recognition. It provides a "look under" capability for the pilot to monitor cockpit instruments. These units are used primarily by Air Force Special Operations Forces, some H-3/MH-60 helicopter rescue forces, some bomber/tanker units and a limited number of F-15 fighter units. Aircrew goggles are binocular. FY97 completes procurement of these goggles. The newer F-4949 goggle, which has better acuity, is now being procured in lieu of the AN/AVS-6.

b. **GROUNDCREW GOGGLE (AN/PVS-7B):** The groundcrew goggle (AN/PVS-7B) is primarily used by security police in conducting air base defense, counternarcotics and anti-terrorist operations. The units are also used by the base recovery after-attack teams and by some non-cockpit aircrew members. This goggle is monocular with a third generation image intensifier. FY96-99 funding procures 86, 66, 216 and 77 goggles respectively.

c. **AIRCREW GOGGLE (F-4949):** The F-4949 night vision goggle provides aircraft and ground personnel with the capability to see the horizon, terrain features and enemy ground fire as well as reducing the potential for air-to-ground fratricide and possible mid-air collisions during night operations. The goggles are helmet mounted and weigh approximately 800 grams. The F-4949 goggles are used by Air Combat Command, Air Mobility Command, Air Education and Training Command, United States Air Forces Europe, Pacific Air Force, Air Force Space Command, Air Force Special Operations Command, the Air National Guard and Air Force Reserve. FY97-99 funding will procure 477, 261 and 875 goggles respectively.

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 197
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE NIGHT VISION GOGGLES								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)											

2. ANG/AFR: (Various types of goggles)

	ANG		AFR	
	QTY	DOLLARS	QTY	DOLLARS
FY96		.096		.062
FY97		.658		.048
FY98		.490		.071
FY99		1.148		.069

**UNCLASSIFIED**

**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)														
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE FEBRUARY 1997					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				NIGHT VISION GOGGLES			See Manufacturing Information on P-5A							
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

1. Aircrew Goggle (AN/AVS-6)	A	75 13	6,632 6,125	(635) 497 80	40	6,125	(262) 245						
A. Engineering Support				53			17						
B. Warranty				5									
2. Groundcrew Goggle (AN/PVS-7B)	A	86	3,555	(334) 306	66	2,640	(186) 174	216	2,640	(619) 570	77	3,827	(322) 295
A. Engineering Support				24			12			49			27
B. Warranty				4									
3. Aircrew Goggle (F-4949)	A				477	6,206	(3,194) 2,960	261	6,206	(1,752) 1,620	875	7,443	(6,764) 6,513
A. Engineering Support							234			132			251
TOTAL				969			3,642			2,371			7,086

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. AIRCREW GOGGLE (AN/AVS-6) FY96	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (4 <sup>TH</sup> YEAR)	AFMC/WRALC	DEC 95	APR 96	75	6,632			
FY96	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (4 <sup>TH</sup> YEAR)	AFMC/WRALC	MAR 96	DEC 96	13	6,125 <sup>1</sup>			
FY97	ARMY/CECOM ITT, ROANOKE VA	MIPR/OPT/ FFP (5 <sup>TH</sup> YEAR)	AFMC/WRALC	FEB 97	JAN 98	39	6,125 <sup>1</sup>	YES	NO	
FY97	ARMY/CECOM ITT, ROANOKE VA	MIPR/OPT/ FFP (5 <sup>TH</sup> YEAR)	AFMC/WRALC	APR 97	JAN 98	1	6,125 <sup>1</sup>	YES	NO	

Remarks:  
1. ARMY PRICING.  
2. AF DELIVERY DATES SLIPPED DUE TO LARGE ARMY QUANTITIES BEING DELIVERED.

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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
2. GROUNDCREW GOGGLE (AN/PVS-7B)											
FY96	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (5th YEAR)	AFMC/WRALC	DEC 95	NOV 99 2	86	3,555 <sup>1</sup>				
FY97	ARMY/CECOM ITT, ROANOKE, VA	MIPR CM2/FFP (1st YEAR)	AFMC/WRALC	FEB 97	JAN 00 2	66	2,640 <sup>1</sup>	YES	NO		
FY98	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT FFP (2nd YEAR)	AFMC/WRALC	MAR 98	FEB 01 2	216	2,640 <sup>1</sup>	YES	NO		
FY99	ARMY/CECOM UNKNOWN	MIPR CM2/FP (1st YEAR)	AFMC/WRALC	APR 99	MAR 02 2	77	3,827 <sup>1</sup>	YES	NO		

Remarks:		
1. ARMY PRICING.		
2. AF DELIVERY DATES SLIPPED DUE TO LARGE ARMY QUANTITIES BEING DELIVERED.		
P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)					A. DATE FEBRUARY 1997					
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 3. AIRCREW GOGGLE (F-4949)

FY97	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (2 <sup>ND</sup> YEAR)	AFMC/WRALC	FEB 97	JAN 98	477	6,206 <sup>1</sup>	YES	NO	
FY98	ARMY/CECOM ITT, ROANOKE, VA	MIPR/OPT/ FFP (3 <sup>RD</sup> YEAR)	AFMC/WRALC	MAR 98	FEB 99	261	6,206 <sup>1</sup>	YES	NO	
FY99	ARMY/CECOM UNKNOWN	MIPR CM2/FP (1 <sup>ST</sup> YEAR)	AFMC/WRALC	APR 99	MAR 00	875	7,443 <sup>1</sup>	YES	NO	

## Remarks:

- ARMY PRICING.
- AF DELIVERY DATES SLIPPED DUE TO LARGE ARMY QUANTITIES BEING DELIVERED.

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# UNCLASSIFIED

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REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:

FY98:  
FY99:  
FY00:  
FY01:

TOTAL USAGE ( MONTHS)

PROCUREMENT LEADTIME: months

NET ASSETS:

ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES  
AIRCREW GOGGLES, AN-AVS-6

INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

4202  
197  
40  
4439  
  
5  
5  
15  
19  
0  
44

TOTAL REQUIREMENT

4395

APPROVED ACQUISITION OBJECTIVE

4395

PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

4395  
4395  
0  
0

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

4395  
4395  
0  
0  
0

REMARKS: These goggles are not being procured after FY97.  
The F-4949, with better acuity, will be procured.

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# UNCLASSIFIED REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:

TOTAL USAGE ( MONTHS)  
PROCUREMENT LEADTIME: months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES  
GROUNDCREW GOGGLES, AN-PVS-7B

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

10882  
163  
66  
11111  
  
243  
138  
105  
139  
0  
625

TOTAL REQUIREMENT

13775

## APPROVED ACQUISITION OBJECTIVE

13775

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

13775  
10486  
3289  
216

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

13775  
10486  
216  
3073  
77

## REMARKS:

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# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: NIGHT VISION GOGGLES  
AIRCREW GOGGLES, F4949

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

<b>ASSETS</b>		
On Hand as of 31 Mar 96	1994	
Due-in w/all Prior Years' Funds	1317	
Due-in w/FY97 Funds	477	
TOTAL ASSETS:	3788	
<b>USAGE (Planned &amp; Projected thru FY99 FDP)</b>		
FY97 since as of date:	0	
FY98:	0	5566
FY99:	0	1214
FY00:	0	817
FY01:	0	
TOTAL USAGE ( ____ MONTHS)	0	7597
PROCUREMENT LEADTIME: ____ months		
<b>NET ASSETS:</b>		7597

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads	
Assets Required for Combat Loads	
Combat Expenditures	
War Reserve Requirement	
Annual Training	
Annual Testing	
Maintenance Pipeline	
Air Force Requirement	
Air National Guard Requirement	
Air Force Reserve Requirement	
TOTAL REQUIREMENT	7597

## APPROVED ACQUISITION OBJECTIVE

7597

## PROCUREMENT REQUIREMENT

Total FY98 Requirement	7597
Less Net Assets	3788
Required FY98 Procurement	3809
Planned FY98 Procurement	261

Total FY99 Requirement	7597
Less Net Assets	3788
Less FY98 Planned Procurement	261
Required FY99 Procurement	3548
Planned FY99 Procurement	875

## REMARKS:

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (PERSONAL SAFETY AND RESCUE EQUIPMENT)					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
COST (in Mil)	\$4.670	\$5.814	\$3.509	\$3.125	\$3.673	\$3.757	\$3.652
							\$3.756

1. This program contains numerous items of safety and rescue equipment used throughout the Air Force. Typical items are anti-exposure coveralls, parachutes, life rafts, and life preservers. Also included are reverse osmosis desalinators which enable personnel on-board life rafts to convert life sustaining quantities of salt water into fresh water.

2. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

NOMENCLATURE	NSN	QTY	FY98 DOLLARS	QTY	FY99 DOLLARS
Person Life Raft	4220-00-563-3567LS	300	.623		
Radio Test Set	6625-01-389-3546	80	1.744	50	1.090
Toxic Indicator	6665-00-941-6554	200	.731	200	.731
Deployable Fire Protection System (DFPS)			.278	10	.832
FSC 4220 Marine, Life Saving & Diving Equipment			.133		.272
FSC 8475 Specialized Flight & Accessories					.200
TOTAL			3.509		3.125

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			1.011			.766
FY97			.963			.609
FY98			1.212			.100
FY99			1.090			.294

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## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

APPROPRIATION/BUDGET ACTIVITY				DATE			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				FEBRUARY 1997			
P-1 ITEM NOMENCLATURE				MECHANIZED MATERIAL HANDLING EQUIPMENT			
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
COST (In Mil)	\$6.251	\$8.866	10.747	14.917	\$15.810	\$15.679	\$14.881
							\$15.181

1. The Mechanized Material Handling System (MMHS) Program provides bases worldwide with automated equipment for storing, receiving and shipping material. The program consists of Base Mechanized and Air Terminal Mechanized equipment projects. The Base Mechanization Equipment Program involves the purchase of mechanized and automated materials handling systems and associated storage aids systems. These systems include roller and tow-line conveyors, monorails, traversing conveyor loading units, pneumatic tube systems, driverless tractor systems, storage/retrieval cranes, automatic stock selector vehicles, operator-aboard systems, associated process control systems, wire guided storage systems (WGSS), automated warehousing systems (AWS), receiving-storage-distribution systems (RS/DS), storage and retrieval systems (S/RS), vertical carousel systems (VCS), small parts handling systems (SPHS), warehouse distribution systems (WDS), and storage aids systems (SAS). The Air Terminal Mechanization Equipment Program acquires mechanized handling systems and automated materials handling systems for bases worldwide. These systems include personnel loading bridges, heavy duty freight handling conveyors, pallet buildup-breakdown stations, cargo storage/retrieval systems, towline conveyors, cranes, hoists and conveyors for aerial delivery facilities, baggage conveyors, air mail terminal systems and heavy duty gantry, jib, or bridge cranes. The projects range in size from simple high-line dock systems to complete automated air freight terminal systems.

2. Adequately equipped facilities are essential to store and handle weapons system components, for enhancing space utilization, to maximize our war readiness capabilities, and to minimize the time required to respond to a threat. The use of this equipment increases the productivity of Air Force support personnel, enhances management control of assets, reduces the pipeline time to the operational users, reduces multiple handling of materials, increases flexibility at a minimum investment cost, simplifies inventory and maintenance tasks, enhances safe operations, and reduces losses due to damage of materials in transport or storage. FY96-99 projects are outlined on the P-5 Budget Exhibit.

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			-			.506
FY97			1.610			-
FY98			.700			-
FY99			-			-

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											
							D. DATE FEBRUARY 1997				
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION						
		MECHANIZED MATERIAL HANDLING EQUIPMENT			See Manufacturing Information On P-5A						
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998		FY 1999
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

[illegible]

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

**UNCLASSIFIED**

[illegible][illegible]

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT						B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE FEBRUARY 1997			
						MECHANIZED MATERIAL HANDLING EQUIPMENT						See Manufacturing Information On P-5A	
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

[illegible]

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			See Manufacturing Information On P-5A					
MECHANIZED MATERIAL HANDLING EQUIPMENT		FY 1996			FY 1997			FY 1998			FY 1999		
Weapon System Cost Elements	IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

6. Air Force Space Cmd (AFSPC)													
A. Clear AS, AK (1) High Density Storage Sys (HDSS) Base Supply Bldg. 250	A						400						1,200
B. Patrick AFB, FL (1) Base Supply, FY98 MCP SXHT983006	A						400						1,200
Subtotal AFSPC													
7. Air Force Special Operations Command (AFSOC)													
A. Hurlburt Field, FL (1) SAS DRASH IOE FTEV946002	A						75						
Subtotal AFSOC							75						

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## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/ POPULAR NAME MECHANIZED MATERIAL HANDLING EQUIPMENT		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information On P-5A		D. DATE FEBRUARY 1997			
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

### 8. Air Mobility Command (AMC)

- A. Dover AFB, DE  
(1) Inbound/Outbound  
(IN/OB) Baggage Conveyor  
IOE FJXT963004
- B. Fairchild AFB, WA  
(1) HAZMAT Storage  
Aids System (SAS)  
MCP FY95 GJKZ920016
- C. Lajes Field, Azores  
(1) Inbound/Outbound  
(IB/OB) IOE FY96  
MCP LAJ96-1014A/B
- D. Mildenhall AB, UK  
(1) Inbound/Outbound  
(IB/OB) Passenger (PAX)  
Terminal  
FY96 MCP MIL96-9991

450

196

200

549

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION									
		MECHANIZED MATERIAL HANDLING EQUIPMENT			See Manufacturing Information On P-5A									
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
			UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
		QTY												

E. McGuire AFB, NJ (1) Overhead Crane MCP PTFL943110/1/2	A	250				
F. Andrews AFB, MD (1) Inbound/Outbound (IB/OB) Baggage Conv IOE AJXF95-1579	A		200			
G. Charleston AFB, SC (1) Storage Aids Sys (SAS) Aerial Port/ Fleet Services	A	125				
H. Norfolk, VA (1) Outbound (OB) Loading Bridge IOE MILCON P-296	A		975			
I. Naples NAS, IT (1) Inbound/Outbound (IB/OB) Baggage Conveyor IOE FY97 MILCON P-112	A		300			

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		See Manufacturing Information On P-5A					
MECHANIZED MATERIAL HANDLING EQUIPMENT		FY 1996		FY 1997		FY 1998		FY 1999			
Weapon System Cost Elements	IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
(2) Mechanization of Air Freight Terminal IOE FY97 MILCON P-112	A						500				
J. Elmendorf AFB, AL (1) Storage Aids Sys (SAS) FSL/CTK IOE FY97 FXSB96-2205	A						100				
K. MacDill AFB, FL (1) Centralized Life Spt MCP NYZR973718	A						250				
L. Ramstein AB, GE (1) Inbound/Outbound (IB/OB) Baggage Conv. IOE FY97 P1K	A						300			6,000	
(2) Mechanization of Air Freight Terminal (AFT) IB/OB Small Parts Handling Sys (SPHS)	A									2,500	
(3) Air Freight Terminal Multipallet Handling Sys	A										

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			MECHANIZED MATERIAL HANDLING EQUIPMENT			See Manufacturing Information On P-5A			
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
M. Misc Storage Aids System (SAS) (1) Sq Ops MCPs	A								
Subtotal AMC				1,395			550		600
9. Air National Guard (ANG)							3,175		9,100
A. Rickenbacker ANGB,OH (1) RS/DS MCP NLZG939686	A			240					
B. Little Rock ANG, AK (1) Base Supply FY96 MCP NKAK939897	A			400					
C. Peoria ANG, IL (1) Aerial Delivery Facility (ADF) MCP JLQN939877	A			300					
D. Phoenix ANG, AZ (1) Storage Aids Sys (SAS) MCP (City Funded)	A			200					

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			See Manufacturing Information On P-5A					
MECHANIZED MATERIAL HANDLING EQUIPMENT		FY 1996			FY 1997			FY 1998			FY 1999		
Weapon System Cost Elements	IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
E. Sioux Falls ANG, SD (1) RS/DS 114 TFG FY96MCP LUXC001389	A						270						
F. Maine ANG, ME (1) Storage Aid Sys (SAS) Mezzanines	A						200						
G. Dallas ANG, TX (1) Base Supply Storage Aid System (SAS) MCP DDPF909506	A									200			
H. Lincoln ANG, NE (1) Receiving, Storage and Dist (RS/DS) Outfitting of Equipment (IOE) FY96 MCP NGCB919717	A									250			
I. Ft Wayne ANGB, IN (1) Receiving, Storage and Dist (RS/DS) IOE MCP ATQZ 001054	A									250			
<b>Subtotal ANG</b>							<b>1,610</b>			<b>700</b>			

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997		
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		See Manufacturing Information On P-5A						
MECHANIZED MATERIAL HANDLING EQUIPMENT		FY 1996		FY 1997		FY 1998		FY 1999		TOTAL COST		
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST
10. PACAF												
A. Eielson AFB AK												
(1) HDS Bldg 1306												
SAS IOE FY95 AGS/APS												
FY96 MCP FTQW933033												
B. Naha Airport, JA												
(1) Air Mail Terminal												
C. Yokota AB, JA												
(1) Air Mail Terminal												
Subtotal PACAF												
11. USAFA												
A. Colorado Springs, CO												
(1) Arnold Hall												
Mezzanine												
Subtotal USAFA												

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/ POPULAR NAME  MECHANIZED MATERIAL HANDLING EQUIPMENT		FY 1996		FY 1997		FY 1998		FY 1999
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	UNIT COST
12. USAFE										
A. Ramstein AFB, GE (1) HAZMAT FY94 MCP TYFR879008	A		100							
(2) High Density Storage Sys MCP 10K Pallet Jacks	A									250
B. Frankfurt AB, GE (1) Air Mail Terminal	A		3,156							
C. Spangdahlem AB (1) Mobility Whse IOE VYHK943005	A					800				
<b>Subtotal USAFE</b>			<b>3,256</b>			<b>800</b>				<b>250</b>
13. Items Under \$200 Thousand										
A. AFMC Robins AFB, GA (1) RS/DS Bldg 364	A									80

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO. OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION									
MECHANIZED MATERIAL HANDLING EQUIPMENT					See Manufacturing Information On P-5A									
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999		
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST

B. AMC-Lajes Field AZ (1) Mech of Air Freight Terminal (AFT)	A					50	
C. Oklahoma ANG, OK (1) High Density Storage System (HDSS)	A					175	
<b>Subtotal: Items under \$200K</b>						<b>130</b>	<b>175</b>
<b>14. US Air Force Wide</b>							
A. Logistics Applications Automatic Marking and Reading Symbols (LOGMARS) FY96							
(1) BCE Auto Identification System	A				466		
B. LOGMARS FY97							
(1) Egress AIT Sys Hill AFB, UT	A					497	

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		MECHANIZED MATERIAL HANDLING EQUIPMENT			See Manufacturing Information On P-5A						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST
A	(2) Mobility Bag control Center, MacDill AFB, FL and Beal AFB, CA		300								
A	(3) Bare Base Inventory Sys, Holloman AFB, NM		600								
A	(4) Extension Course Institute Manifest System, Gunter Annex, AL		200								
A	C. LOGMARS FY98										
A	(1) Ammunition Logistics Sys, Hill AFB, UT					500					
A	(2) Supply Asset Tracking Sys (SATS) Cargo Move. Operating Sys (CMOS) Radio Frequency (RF), Eglin AFB, FL					490					
A	(3) Red Flag Security Access Sys, Nellis AFB, NV					550					

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997			
SUPPORT EQUIPMENT		MECHANIZED MATERIAL HANDLING EQUIPMENT			See Manufacturing Information On P-5A						
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999		TOTAL COST	
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
(4) U2 Weapons Sys Support, Robins AFB, GA	A										
D. LOGMARS FY99 (Individual FY99 projects to be approved 2 <sup>nd</sup> Qtr FY97)	A										
Subtotal USAF Wide			466			1,597			1,845		1,945
TOTAL			6,251			8,866			10,747		14,917

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96			C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING SYSTEMS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

### FY96 MMHS PROJECTS

#### 1. ACC

A. NELLIS AFB, NV  
(1) HDSS ENGINE PARTS

28

#### 2. AETC

A. KEESLER AFB, MS  
(1) STORAGE AIDS SYS  
TAYLOR LOGISTICS CENTER

65

#### 3. AFCEA

A. GOODFELLOW AFB, TX  
(1) SAS CIVIL ENGINEERING

60

B. SHEPPARD AFB, TX  
(1) SAS  
MCP FY95VNV/P862005

200

### D. REMARKS

MCP - MILITARY CONSTRUCTION PROJECT  
IOE - INITIAL OPERATION CAPABILITY

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96		C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING SYSTEMS								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
4. AFMC A. ARNOLD AFB, TN (1) HDSS HAZMAT FY95 MCP 963003	GENESYS, INC WINTER SPR, FL	C/FFP	AFMC/ASC	SEP 96	MAY 97	1	200			
5. AFRES A. HOMESTEAD AFB, FL (1) RS/DS FY95 MCP HACC943062	INTL AUTO. SYS ST PAUL, MN	C/FFP	AFMC/ASC	SEP 96	MAY 97	1	506			
7. AFSOC A. HURLBURT FLD, FL (1) SAS DRASH IOE FTEV946002	GENESYS, INC WINTER SPR, FL	C/FFP	AFMC/ASC	JUL 96	FEB 97	1	75			
8. AMC A. DOVER AFB, DE (1) IN/OB BAGGAGE CNVYR IOE FJXT963004	GENESYS, INC WINTER SPR, FL	C/FFP	AFMC/ASC	SEP 96	MAY 97	1	450			

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATION CAPABILITY		P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 44	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96			C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING SYSTEMS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

B. FAIRCHILD AFB, WA (1) HAZMAT SAS MCP FY95 GJKZ920016	SPACE SAVER STORAGE SEATTLE, WA	C/FFP	FAIRCHILD AFB, WA	JUL 96	OCT 96	1	196			
C. LAJES FIELD, AZORES (1) IB/OB IOE FY96 MCP LAJ96-1014A/B	BLOCAIOA LDT AZORES	C/FFP	LAJES FIELD, AZORES	JUL 96	DEC 96	1	200			
D. MILDENHALL AB, UK (1) IB/OB PAX TERM FY96 MCP MIL96-9991	GENESYS INC WINTER SPRING, FL	C/FFP	AFMC/ASC	JUL 96	FEB 97	1	549			
12. USAFE										
A. RAMSTEIN AB, GE (1) HAZMAT FY94 MCP TYFR879008	OSKAR SCHEIDER GERMANY	C/FFP	RAMSTEIN AFB, GE	AUG 96	DEC 96	1	100			
B. FRANKFURT AB, GE (1) AIR MAIL TERMINAL	INTL AUTO. SYS ST PAUL, MN	C/FFP	AFMC/ASC	SEP 96	SEP 97	1	3,156			

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATION CAPABILITY	P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 45	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)					A. DATE FEBRUARY 1997					
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT FY96			MECHANIZED MATERIAL HANDLING SYSTEMS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

14. US Air Force Wide										
A. LOGMARS										
(1) BCE AUTO ID SYSTEM										
	COMPUTER SVCS CORP DALLAS, TX	C/FFP	AFMC/ASC	APR 96	OCT 96	1	466			

D. REMARKS			P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5a Procurement History and Planning
MCP - MILITARY CONSTRUCTION PROJECT			88		46	
IOE - INITIAL OPERATION CAPABILITY						

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97					C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

FY97 MMHS PROJECTS										
1. ACC										
B. MISC STORAGE AIDS SYS	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	OCT 97	1	1380	YES	NO	
3. AFCEA										
C. KEESLER AFB, MS (1) SAS CIVIL ENGINEERING LOGISTICS FACILITY	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	DEC 97	1	200	NO	YES	FEB 97
4. AFMC										
B. EDWARDS AFB, CA (1) FLIGHT TEST F-22 FY96 MCP 963506	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	JAN 98	1	250	YES	NO	
C. ROBINS AFB, GA (1) RS/DS MOBAGS, BLDG 127	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	NOV 97	1	200	YES	NO	

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT				P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 47	Exhibit P-5a Procurement History and Planning				
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

6. AFSPC										
A. CLEAR AFB, AK (1) HDSS BASE SUPPLY BLDG 250	UNKNOWN	C/FFP	AFMC/ASC	JUN 97	JAN 98	1	400	YES	NO	
8. AMC										
E. MCGUIRE AFB, NJ (1) OVERHEAD CRANE MCP PTFL943110/1/2	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	AUG 97	1	250	YES	NO	
G. CHARLESTON AFB, SC (2) SAS AERIAL PORT/FLEET SERVICES	UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	1	125	NO	YES	MAR 97
M. MISC SAS (1) SQ OPS MCP'S	ARMY CORP OF ENGINEERS	C/FFP	AFMC/ASC	MAY 97	FEB 98		1,600	YES	NO	

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT			P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 48	Exhibit P-5a Procurement History and Planning	
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY		C. P-1 ITEM NOMENCLATURE								
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97		MECHANIZED MATERIAL HANDLING EQUIPMENT								
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 9. ANG

A. RICKENBACKER ANG, OH  
(1) RS/DS MCP  
NLZG939686

B. LITTLE ROCK ANG, AK  
(1) BASE SUPPLY FY96 MCP  
NKAK939897

C. PEORIA ANG, IL  
(1) AERIAL DELIVERY FACILITY  
MCP JLQN939877

D. PHOENIX ANG, AZ  
(1) SAS MCP (CITY FUNDED)

E. SIOUX FALLS ANG, SD  
(1) RS/DS 114 TFG  
FY96 MCP LUXC001389

F. MAINE ANG, ME  
(1) SAS MEZZANINES

UNKNOWN	C/FFP	AFMC/ASC	JUL 97	DEC 97	1	240	YES	NO	
UNKNOWN	C/FFP	AFMC/ASC	JUL 97	OCT 97	1	400	YES	NO	
UNKNOWN	C/FFP	AFMC/ASC	FEB 97	SEP 97	1	300	YES	NO	
UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	1	200	NO	YES	FEB 97
UNKNOWN	C/FFP	AFMC/ASC	MAR 97	SEP 97	1	270	YES	NO	
UNKNOWN	C/FFP	AFMC/ASC	MAY 97	OCT 97	1	200	NO	YES	FEB 97

## D. REMARKS

MCP - MILITARY CONSTRUCTION PROJECT  
IOE - INITIAL OPERATING EQUIPMENT

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

10. PACAF										
A. EIELSON AFB, AK (1)HDS BLDG 1306 SAS IOE FY95 AGS/APS FY96 MCP FTQW933033	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	NOV 97	1	225	YES	NO	
11. USAFA										
A. COLORADO SPRINGS, CO (1) ARNOLD HALL MEZZANINE	UNKNOWN	C/FFP	AFMC/ASC	JUL 97	DEC 97	1	99	NO	YES	FEB 97
12. USAFE										
C. SPANGDAHLEM AB, GE (1)MOBILITY WHSE IOE YHK943005	UNKNOWN	C/FFP	AFMC/ASC	AUG 97	SEP 98	1	800	YES	NO	

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT		P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 50	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97					C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

## 13. ITEMS UNDER \$200 THOUSAND

A. ROBINS AFB, GA  
(1) RS/DS BLDG 364

B. AMC - LAJES FLD, AZORES  
(1) MECH OF AFT

## 14. US AIR FORCE WIDE

(1) EGRESS AIT SYSTEM  
HILL AFB, UT

(2) MOBILITY BAG CONTROL  
CENTER, MACDILL AFB, FL  
& BEALE AFB, CA

(3) BARE BASE INVENTORY  
SYS, HOLLMAN AFB, NM

UNKNOWN	C/FFP	AFMC/ASC	JUN 97	DEC 97	1	80	YES	NO		
UNKNOWN	C/FFP	AFMC/ASC	MAR 97	SEP 97	1	50	NO	YES		FEB 97
UNKNOWN	C/FFP	AFMC/ASC	APR 97	SEP 97	1	497	NO	YES		FEB 97
UNKNOWN	C/FFP	AFMC/ASC	MAR 97	AUG 97	1	300	NO	YES		FEB 97
UNKNOWN	C/FFP	AFMC/ASC	MAR 97	SEP 97	1	600	YES	NO		

## D. REMARKS

MCP - MILITARY CONSTRUCTION PROJECT  
IOE - INITIAL OPERATING EQUIPMENT

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY97			MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
(4) EXT COURSE INSTITUTE MANIFEST SYS, GUNTER ANNEX, AL	UNKNOWN	C/FFP	AFMC/ASC	MAY 97	SEP 97	1	200	NO	YES	APR 97

D. REMARKS			P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98			C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

FY98 MMHS PROJECTS  
1. ACC

B. MISC STORAGE AIDS SYS

## 2. AETC

B. SHEPPARD AFB, TX  
(1) RS/DS FY96 MCP  
VNVF902005C. TYNDALL AFB, FL  
(1) SAS SUPPLY WAREHOUSE

## 3. AFCEA

D. LANGELY AFB, VA  
(1) SAS FY94 MCP  
FY94 MUHJ943008

E. MISC SAS

	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	JAN 99	1	585	NO	YES	NOV 97
	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	1,000	NO	YES	NOV 97
	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	JAN 99	1	200	NO	YES	NOV 97
	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	300	NO	YES	NOV 97
	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	JAN 99	1	1,437	NO	YES	DEC 97

## D. REMARKS

MCP - MILITARY CONSTRUCTION PROJECT  
IOE - INITIAL OPERATING EQUIPMENT

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98				C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
4. AFMC											
C. ROBINS AFB, GA (2) AS/RS, BLDG 640/645	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	JAN 99	1	450	NO	YES	OCT 97	
D. DAVIS MONTHAN AFB, AZ (1) BASE SUPPLY MCP FBNV973502	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	APR 99	1	500	NO	YES	DEC 97	
8. AMC											
F. ANDREWS AFB, MD (1) IN/OB BAGG. CONV. IOE AJXF95-1579	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	200	NO	YES	DEC 97	
H. NORFOLK, VA (1) (OB) LOADING BRIDGE IOE MILCON P-296	UNKNOWN	C/FFP	AFMC/ASC	MAR 98	SEP 98	1	975	NO	YES	JAN 98	
I. NAPLES NAS, IT (1) IB/OB BAGGAGE CNVYR IOE FY97 MILCON P-112	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	SEP 99	1	300	NO	YES	NOV 97	
(2) MECHANIZATION OF AIR FREIGHT TERMINAL IOE FY97 MILCON P-112	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	SEP 99	1	500	NO	YES	NOV 97	
D. REMARKS											
MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT											
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98					C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
J. ELMENDORF AFB, AL (1) SAS FSL/CTK IOE FY97 FXSB96-2205	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	100	NO	YES	DEC 97	
K. MACDILL AFB, FL (1) CENTRALIZED LIFE SPT MCP NYZR973718	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	OCT 98	1	250	NO	YES	NOV 97	
L. RAMSTEIN AB, GE (1) IN/OB BAGG. CONV. IOE FY97 P1K	UNKNOWN	C/FFP	AFMC/ASC	JUN 98	DEC 98	1	300	NO	YES	DEC 97	
M. MISC SAS (1) SQ OPS MCP'S	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	FEB 99		550	NO	YES	DEC 97	
9. ANG											
G. DALLAS ANG, TX (1) BASE SAS MCP DDPF909506	UNKNOWN	C/FFP	AFMC/ASC	JUL 98	FEB 99	1	200	NO	YES	OCT 97	
H. LINCOLN ANG, NE (1) RS/DS IOE, FY96 MCP NGCB919717	UNKNOWN	C/FFP	AFMC/ASC	MAR 98	DEC 98	1	250	NO	YES	OCT 97	

  

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT			P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98			MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. FT WAYNE ANGB, IN (1) RS/DS IOE MCP ATOZ 001054	UNKNOWN	C/FFP	AFMC/ASC	JAN 98	JUL 98	1	250	NO	YES	JUN 97
10. PACAF										
B. NAHA AIRPORT, JAPAN (1) AIR MAIL TERMINAL	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	FEB 99	1	190	NO	YES	NOV 97
C. YOKOTA AB, JAPAN (1) AIR MAIL TERMINAL	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	FEB 99	1	190	NO	YES	NOV 97
13. ITEMS UNDER \$200 THOUSAND										
C. OKLAHOMA ANG, OK (1) HDSS	UNKNOWN	C/FFP	AFMC/ASC	APR 98	OCT 98	1	175	NO	YES	OCT 97
14. US AIR FORCE WIDE										
C. LOGMARS (1) AMMO LOGISTICS SYS HILL AFB, UT	UNKNOWN	C/FFP	AFMC/ASC	MAR 98	AUG 98	1	500	NO	YES	JAN 98
D. REMARKS										
MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT										
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE									
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY98				MECHANIZED MATERIAL HANDLING EQUIPMENT									
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL			

(2) SATS CMOS RF EGLIN AFB, FL	UNKNOWN	C/FFP	AFMC/ASC	MAY 98	SEP 98	1	490	NO	YES	MAR 98		
(3) RED FLAG SECURITY ACCESS SYS NELLIS AFB, NV	UNKNOWN	C/FFP	AFMC/ASC	JAN 98	JUN 98	1	550	NO	YES	NOV 97		
(4) U2 WEAPONS SYS SPT ROBINS AFB, GA	UNKNOWN	C/FFP	AFMC/ASC	JAN 98	JUL 98	1	305	NO	YES	NOV 97		

D. REMARKS		P-1 SHOPP LIST ITEM NO. 88		PAGE NO. 57		Exhibit P-5a Procurement History and Planning	
MCP - MILITARY CONSTRUCTION PROJECT							
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY99				MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
FY99 MMHS PROJECTS											
1. ACC											
B. MISC SAS	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	FEB 00	1	1,211	NO	YES	NOV 98	
C. MINOT AFB, ND (1) AGVS WHSE	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	JAN 00	1	200	NO	YES	NOV 98	
2. AETC											
D. LACKLAND AFB, TX (1) INITIAL ISSUE FLIGHT	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	394	NO	YES	NOV 98	
3. AFCEA											
F. ALTUS AFB, OK (1) SAS FY98 MCP AGG N973014	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	212	NO	YES	NOV 98	
D. REMARKS											
MCP - MILITARY CONSTRUCTION PROJECT											
IOE - INITIAL OPERATING EQUIPMENT											
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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

B. APPROPRIATION/BUDGET ACTIVITY						C. P-1 ITEM NOMENCLATURE				A. DATE			
OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY99						MECHANIZED MATERIAL HANDLING EQUIPMENT				FEBRUARY 1997			
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL			

4. AFMC													
B. EDWARDS AFB, CA (2) SPRS	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	300	NO	YES	NOV 98			
C. ROBINS AFB, GA (3) SPRS BLDG 301	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	DEC 99	1	105	NO	YES	NOV 98			
6. AFSPC													
B. PATRICK AFB, FL (1) BASE SUPPLY, FY98 MCP SXHT983006	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	FEB 00	1	1,200	NO	YES	NOV 98			
8. AMC													
L. RAMSTEIN AB, GE (2) AFT IB/OB SPHS	UNKNOWN	C/FFP	AFMC/ASC	JUL 99	AUG 00	1	6,000	NO	YES	NOV 98			
(3) AIR FREIGHT TERMINAL MULTIPALLET HANDLING SYS	UNKNOWN	C/FFP	AFMC/ASC	JUL 99	AUG 00	1	2,500	NO	YES	NOV 98			
M. MISC SAS (1) SQ OPS MCP'S	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	FEB 00		600	NO	YES	DEC 98			

D. REMARKS				Exhibit P-5a Procurement History and Planning			
MCP - MILITARY CONSTRUCTION PROJECT							
IOE - INITIAL OPERATING EQUIPMENT							
				P-1 SHOPP LIST ITEM NO. 88	PAGE NO. 59		

# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE AND SUPPORT EQUIPMENT MAINTENANCE FY99			C. P-1 ITEM NOMENCLATURE MECHANIZED MATERIAL HANDLING EQUIPMENT							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

12. USAF										
A. RAMSTEIN AB, GE (2) HIGH DENSITY STORAGE SYS MCP 10K PALLET JACKS	UNKNOWN	C/FFP	AFMC/ASC	JUN 99	JAN 00	1	250	NO	YES	NOV 98
14. US AIR FORCE WIDE										
D. LOGMARS See Note on P-5 Exhibit.										

D. REMARKS MCP - MILITARY CONSTRUCTION PROJECT IOE - INITIAL OPERATING EQUIPMENT			P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
			88	60	

# UNCLASSIFIED



# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE INDUSTRIAL SUPPORT EQUIPMENT)				
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY						
COST (in Mil)	\$3.979	\$5.713	\$3.980	\$2.016	\$4.121	\$4.210
						\$4.083
						\$4.160

1. This program provides a wide range of industrial equipment for base-level industrial shops used in support of aircraft, communications, welding shops, electronic components, and paint shops. This equipment is used in the repair of engines, hydraulic / pneumatic systems, landing gear, airframe components, and instruments, etc. Also included in this program is state-of-the-art equipment required to upgrade and replace the antiquated metalworking equipment in Air Force base maintenance shops. As this type of equipment reaches its life expectancy, it must be replaced to prevent work stoppage in the repair and manufacture of critical weapon system components. Replacement of this type of equipment is a continual, proactive process necessary to prevent out-of-tolerance conditions that lead to excessive down times for the equipment and the components they repair.

2. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

NOMENCLATURE	NSN	FY98		FY99	
		QTY	DOLLARS	QTY	DOLLARS
Bending Machine, Tube	3441-00-938-4573	2	.835	1	.426
Bending Machine, Pipe	3441-01-115-7636	1	.327		
Lathe, Chucker	3416-01-119-5345	5	.843	1	.172
Boring-Milling-Drilling Machine	3411-01-160-5457	6	.350	6	.350
Welding Machine, Arc	3431-00-846-9636	14	.244	28	.488
Saw, Circular Table	3220-00-541-4249	28	.232		
Electrical Discharger	3410-01-219-3713	1	.296		
Flaring and Beading	3441-00-528-8680	7	.275		
Shearing Machine, Metal	3445-00-263-0079	9	.292		
Press, Arbor, Power-O	3445-01-354-2951	4	.286	2	.142
Press, Break, Power-O	3442-01-368-6698			51	.187
Threading Machine, Pipe	3441-00-812-5217			1	.070
	3419-01-260-5481			10	.181
TOTAL			3.980		2.016

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/Other Base Maintenance and Support Equipment		P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE INDUSTRIAL SUPPORT EQUIPMENT)						FEBRUARY 1997
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY								
COST (In Mil)								

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			.240			.440
FY97			1.500			.790
FY98			.650			.120
FY99			.412			.387

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)	\$0.215	\$0.605	\$3.692	\$2.395	\$2.582	\$2.433	\$2.410		\$2.508	

- Generators provide primary and/or utility power to alert hangars, communications systems, radar systems, field hospitals, control towers, maintenance shops, runway lighting, cold storage plants, sewage disposal systems, beacons, direction finding equipment, and any applications where primary and backup power is required.
- The generator program includes funds for replacements as well as shortages. The current fleet of generators is over-age and non-supportable, has high repair costs, is of a non-DoD standard design, and does not meet current user requirements. The average age of these generators exceeds projected life expectancy, and repair is no longer economically feasible. Depot repair has been terminated for many older generators due to excessive repair costs and non-availability of parts.
- Procurement of the DoD's standard family of Tactical Quiet Generators (TQG) introduces a new family of generators (sizes 5 through 200 kilowatt) into the Air Force inventory that will satisfy the following user requirements:
  - reduced detection by threat forces (low operating noise and infrared suppression).
  - improved mobility (lighter weight).
  - improved reliability (lower operating and support costs).
  - improved survivability (high altitude electromagnetic pulse protection).
  - single fuel on the battle field (JP8).
- The FY97-99 program funds three types of generators:

a. **POWER PLANT, 60KW/400HZ (AN/MJQ-1632) NSN 6115-01-364-0157.** This power plant system includes two 60 kilowatt, 400 hertz tactical quiet generators (TQGs) mounted on a 5-ton trailer. Each generator is capable of running eight hours without refueling and contains a fuel connection to use a remote source. The power plant will be used to support a wide array of command, control, communications, and intelligence equipment which are critical to the successful execution of an air campaign. This power plant is used by Air Combat Command (ACC) to power radar and ancillary equipment. These plants will also support the Pacific Air Forces (PACAF) Forward Air Control Post (FACP), Air Support Operations Center (ASOC) shelters and Adaptive Surface Interface

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			GENERATORS, MOBILE ELECTRIC			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY						
COST (In Mil)						

Terminal (ASIT) Van. Stable reliable power is needed by the FACP's high power tactical radar to identify hostile intruder aircraft and to direct and control friendly air forces. These generators provide power to operate sensitive electronic equipment in all the ASOC shelters and provide environmental control for seasonal temperature extremes thus allowing deployed ASOC personnel to accomplish their mission as air liaison to the supported Army Corps and battlefield oversight for the whole close air support scenario. The 400 hertz power allows the ASIT van to downlink the overall air picture from an Airborne Warning and Control Systems (AWACS) aircraft for use by the air component commander. The 400KW power generator will replace the current aging gas turbine power plants which are becoming unreliable. FY98 and 99 funds procure 16 and 17 power plants respectively.

b. **GENERATOR, 100KW/60HZ (MEP 807A) NSN 6115-01-296-1463.** This DoD standard liquid cooled generator set provides 100 kilowatts of power at 60 hertz for alert hangars, microwave test range support, hospitals, runway lights, ground control approach backup, control towers and maintenance facilities supporting multiple aircraft. Repair of the current generator, the MB-16, was terminated in Sep 91 due to excessive cost and non-availability of parts. FY97-99 funds procure 8, 34 and 10 MEP 807A generators respectively.

c. **GENERATOR, 200KW/60HZ (MEP 809A) NSN 6115-01-296-1462.** This tactical quiet generator provides 200 kilowatts of power at 60 hertz. Its applications include microwave test range support, control towers, communications, field hospitals, ground satellite terminals, water purification units, and schools. This generator which is diesel engine driven, high-altitude electromagnetic pulse protected and noise suppressed is also used in cases of national disasters where power is required to immediately support relief and rescue efforts. FY97-99 funds procure 8, 30 and 15 MEP 809A generators respectively.

5. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			-			-
FY97			.164			.082
FY98			.856			-
FY99			.832			-

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# UNCLASSIFIED

# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		See Manufacturing Information on P-5A					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		GENERATORS, MOBILE ELECTRIC									
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST		

a. Power Plant, 60KW/400HZ (AN/MJQ-1632)	A						16	81,428	1,303	17	83,181	1,414
b. Generator, 100KW/60HZ (MEP 807A)	A			8	32,704	262	34	33,408	1,136	10	34,144	341
c. Generator, 200KW/60HZ (MEP 809A)	A			8	40,880	327	30	41,760	1,253	15	42,680	640
d. Data/Tech Manuals	A					16						
TOTAL			215*			605			3,692			2,395

\*EPA restrictions disallowed procurement on all 30KW and 60KW MEP 805A, MEP-815A, MEP-860A and MEP-816A generators in FY96. FY96 funds will be used for below threshold reprogramming on other OPAF P-1 lines.

P-1 SHOPP LIST ITEM NO. 90		PAGE NO. 65	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY			C. P-1 ITEM NOMENCLATURE:							
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			GENERATORS, MOBILE ELECTRIC							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

POWER PLANT, 60KW/400HZ (AN/MJQ-1632)	FY95	ARMY/ATCOM TOBYHANNA ARMY DEPOT	MIPR/C/FP	AFMC/SMALC	DEC 94	FEB 97	12	76,243		
		ARMY/ATCOM TOBYHANNA ARMY DEPOT	MIPR CM3/FP (1st Yr)	AFMC/SMALC	NOV 97	DEC 98	16	81,428	YES	NO
		ARMY/ATCOM TOBYHANNA ARMY DEPOT	MIPR OPT/FP (2nd Yr)	AFMC/SMALC	NOV 98	FEB 99	17	83,181	YES	NO

REMARKS: 1. FY95 CONTRACT WAS TERMINATED AT CONVENIENCE OF THE GOVT. NEW PURCHASE REQUEST WAS SUBMITTED JUN 96 USING FY95 FUNDS.		
P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

GENERATOR, 100KW/60HZ (807A) FY95 1	ARMY/ATCOM UNKNOWN	MIPR/C/FP	AFMC/SMALC	MAY 97	AUG 97	36	32,000	YES	NO	
FY97	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUN 97	DEC 97	8	32,704	YES	NO	
FY98	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 98	DEC 98	34	33,408	YES	NO	
FY99	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 99	DEC 99	10	34,144	YES	NO	
GENERATOR, 200KW/60HZ (809A) FY95 1	ARMY/ATCOM UNKNOWN	MIPR/C/FP	AFMC/SMALC	MAY 97	AUG 97	33	40,000	YES	NO	
FY97	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUN 97	DEC 97	8	40,880	YES	NO	
FY98	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 98	DEC 98	30	41,760	YES	NO	
FY99	ARMY/ATCOM UNKNOWN	MIPR/OPT	AFMC/SMALC	JUL 99	DEC 99	15	42,680	YES	NO	

REMARKS:  
1. FY95 CONTRACT WAS TERMINATED AT CONVENIENCE OF THE GOVT. NEW PURCHASE REQUEST WAS SUBMITTED JUN 96 USING FY95 FUNDS.

P-1 SHOPP LIST ITEM NO. 90		PAGE NO. 67	Exhibit P-5a Procurement History and Planning
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# UNCLASSIFIED



# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTEC,  
POWER PLANT, 60KW/400HZ, (AN/MJQ-1632)

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:

TOTAL USAGE ( MONTHS)  
PROCUREMENT LEADTIME: months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

## TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement  
  
Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

## REMARKS:

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ITEM NO. 90

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UNCLASSIFIED

# UNCLASSIFIED REQUIREMENTS STUDY

DATE: SEPTEMBER 1996  
P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC  
100KW/60HZ (MEP 807A)

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## DISPOSAL (Planned & Projected thru FY98 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:  
TOTAL DISPOSALS ( MONTHS)  
PROCUREMENT LEADTIME: months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

## TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

## PROCUREMENT REQUIREMENT

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99Procurement

## REMARKS:

P-1 SHOPP LIST  
ITEM NO. 90

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UNCLASSIFIED

# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: GENERATORS, MOBILE ELECTRIC  
200KW/60HZ (MEP 809A)

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:

TOTAL USAGE ( MONTHS)  
PROCUREMENT LEADTIME: months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

## TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

## TOTAL FY99 REQUIREMENT

Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

## REMARKS:

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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE		FEBRUARY 1997					
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE								FLOODLIGHTS					
QUANTITY		FY 1996		FY 1997		FY 1998		FY 1999		FY 2000		FY 2001		FY 2002		FY 2003	
COST (In Mil)		.009		-		\$7.696		\$10.725		\$13.777		\$7.518		\$7.199		\$7.316	

Floodlights are essential for performing night maintenance on aircraft, for loading and unloading aircraft cargo, and for emergency lighting. They are also required for perimeter defense, emergency disaster coverage, aircraft accident on-site investigations, lighting entry gate areas and perimeters of secured areas in support of security police operations, and for rapid runway repairs. Floodlight sets are mobile and permanently mounted on a four-wheel trailer type chassis consisting of a tower with two 1,000 watt floodlights mounted on it, power distribution equipment, a diesel engine-driven generator set, and metal storage space for protection/storage of the components and technical manuals.

1. The current NF-2D Floodlight Cart was procured as early as 1960 and some of the units are still in the inventory. All currently fielded NF-2Ds have exceeded their useful service life which is approximately 12 years. Spare parts are no longer available for repair of the floodlight set. An attempt was made to replace the NF-2 Floodlight Cart in the early 1980s with a commercial item, model TF-1. However, it was designed for use in lighting construction sites and was not compatible with the aircraft maintenance environment. After many attempts were made to improve the TF-1's aircraft maintenance compatibility, it was concluded that the TF-1 could not support Air Force weapon systems.
2. Procurement of the new FL-1D Floodlight, which will replace the NF-2D, will ensure continued support for weapon system maintenance. Weapon system maintenance performed at forward operating locations must have a lighting system that does not unnecessarily burden the deployment footprint or logistics support. Procuring this item will ensure that this support is available when needed in both the short and long term.
3. The new floodlight set consists of a tower for mounting two 1000 watt floodlights, power distribution equipment, a diesel engine-driven generator set, and metal storage space for protection/storage of the components and technical manuals. This new floodlight is permanently mounted on a four-wheel trailer type chassis.
4. Item Code: A.

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# UNCLASSIFIED

**UNCLASSIFIED**

<b>BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)</b>						<b>DATE</b> FEBRUARY 1997
<b>APPROPRIATION/BUDGET ACTIVITY</b>		<b>P-1 ITEM NOMENCLATURE</b>				
<b>OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ</b>		<b>FLOODLIGHTS</b>				
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY						
COST (In Mil)						

5. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			-			-
FY97			-			-
FY98			.368			1.398
FY99			.313			1.428

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**UNCLASSIFIED**



# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE FLOODLIGHTS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

FL-1D FLOODLIGHT FY87	UMC ELECTRIC NORTH HAVEN, CT	C/FP	AFMC/SA-ALC	JUN 88	NOV 91	199	6,474			
FY97	UNKNOWN	C/FFP	AFMC/SA-ALC	MAR 97	MAR 98	2	18,000 1	YES	NO	
FY98	UNKNOWN	OPT/FFP	AFMC/SA-ALC	OCT 97	APR 98	627	12,274 2	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	OCT 98	APR 99	856	12,529 2	YES	NO	

D. REMARKS:				Exhibit P-5a Procurement History and Planning	
1. FUNDED IN ITEMS LESS THAN \$2 MILLION (ELECTRICAL EQUIPMENT), P-1 LINE #92.				PAGE NO.	
2. UNIT COST BASED ON ENGINEERING ESTIMATE.				P-1 SHOPP LIST ITEM NO.	91
					75

# UNCLASSIFIED

# UNCLASSIFIED REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: FLOODLIGHTS  
FL-1D FLOODLIGHT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:

TOTAL USAGE ( MONTHS)  
PROCUREMENT LEADTIME: 17 months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

## TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

## TOTAL FY99 REQUIREMENT

Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

## REMARKS:

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FY9800 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: FL-1D FLOODLIGHT										DATE: FEBRUARY 1997																								
ITEM/MFG PROCUREMENT YEAR			PROC ACPT BAL			QTY PRIOR DUE			1-04 1-04 1-04			96 96 96			FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			CALENDAR YEAR 98			CALENDAR YEAR 99			LATER														
FL-1D FLOODLIGHT																																												
FY97			AF			2			0			2																																
FY98			AF			627			0			627																																
FY99			AF			856			0			856																																
TOTAL						1485			0			1485																																
MANUFACTURER'S NAME AND LOCATION			UNKNOWN																																									
PROD RATES			MIN			MAX			CH D:			REA:																																
ADMIN LEAD TIME			PR 1 OCT			AFT 1 OCT			TIME			MANUFACTURING			TOTAL AFTER 1																													
INITIAL FY97			0			0			5			12			17																													
REORDER FY98			0			0			6			6			6																													

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE:					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		ITEMS LESS THAN \$2,000,000 (ELECTRICAL EQUIPMENT)					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2003
QUANTITY							
COST (In Mil)	\$ .526	\$3.422	\$3.968	\$2.810	\$3.928	\$3.984	\$3.939

1. This line includes electrical power generators, switches, transformers and controls, connectors and portable lighting equipment for power distribution for use throughout the Air Force. These items support communications systems, radar systems, aircraft maintenance shops, hospitals, maintenance shelters, test ranges and the medical War Readiness Material (WRM) Program.
2. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

NOMENCLATURE	NSN	FY98		FY99	
		QTY	DOLLARS	QTY	DOLLARS
Generator, MEP 803A	6115-01-275-5061	40	.475	49	.595
Generator, MEP 805A	6115-01-274-7389	50	.757	60	.927
Generator, MEP 816A	6115-01-274-7395	15	.321		
Generator, MEP 831A	6115-01-285-3012	100	.361	308	1.137
Power Plant, AN/MJQ-40	6115-01-299-6033	9	.582		
Power Unit, PU-803	6115-01-317-2136	43	1.211		.151
Federal Stock Class (FSC) 2530			.261		
TOTAL			3.968		2.810

3. **ANG/AFR:**

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			.140			.140
FY97			1.500			.790
FY98			1.300			.183
FY99			.600			.090

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY				P-1 ITEM NOMENCLATURE:							
OPAF/Other Base Maintenance and Support Equipment				BASE PROCURED EQUIPMENT							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
QUANTITY											
COST (In Mil)	\$4.739	\$5.988	\$6.855	\$5.800	\$5.850	\$5.900	\$ .960	\$1.100			

1. Bases and units throughout the Air Force require and are authorized equipment that must be acquired directly from General Services Administration (GSA), Defense Logistics Agency (DLA), one of the other services, or from commercial concerns. This results from federal policy to relieve the services of wholesale management of non-military and commercial items to reduce cost. Base Procured Equipment (BPE) provides funds for local procurement of equipment costing \$100,000 or more which is not centrally procured and managed. Included are roads and grounds maintenance equipment; vehicle maintenance shop equipment; specialized tool kits and test equipment; civil engineering maintenance, electrical, and carpenter shop equipment; specialized laboratory equipment; food service equipment; printing plant equipment; refrigerators, freezers, and air conditioning equipment; heating equipment; microfilm equipment; copiers and duplicators; and communications equipment.
2. The equipment described above is needed for day-to-day maintenance and operation of bases, weapons and support systems and for support of both active and air reserve forces. The program supports hundreds of installations at multiple major commands. Requirements and priorities are affected by assignment and conversion of new equipment; reorganizations; natural disasters; new operational methods to increase efficiency and safety; and energy conservation initiatives. Examples are: (1) Upgrading kitchen and dining facilities; (2) Installing utility monitoring systems to increase efficiency and reduce cost; (3) Installing aircraft and vehicle corrosion control equipment; (4) Procuring support equipment for beddown of new weapon systems; and (5) Procuring automation equipment to reduce the cost of data processing, storage, retrieval and distribution.
3. FY98/99 BPE resources programmed by Air Force major commands and/or field operating agencies are displayed on the following P-5 Budget Exhibit.
4. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			.210			-
FY97			-			-
FY98			.800			-
FY99			-			-

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)											
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997		
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			BASE PROCURED EQUIPMENT			Multiple Vendors					
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	
Air Mobility Command	A			276			583			340	350
Air Combat Command	A			1,353			1,988			3,000	3,000
Pacific Air Forces	A			635			600			320	-
US Air Forces in Europe	A			363			600			625	650
Air Education & Training Cmd	A			385			400			540	550
Air Force Comm Agency	A			222			-			250	250
Air National Guard	A			210			-			800	-
US Air Force Academy	A			713			200			240	250
Air Force Space Command	A			386			388			500	500
AF Special Operations Cmd	A			418			200			240	250
AF Ofc of Spec. Investigations	A			-			100			-	-
				P-1 SHOPP LIST ITEM NO. 93			PAGE NO. 81			Exhibit P-5 Weapon System Cost Analysis	

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE	
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		BASE PROCURED EQUIPMENT			Multiple Vendors			FEBRUARY 1997	
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST
Air Force Materiel Command	A			-			729		
11 <sup>th</sup> Support Wing	A			-			200		
TOTAL				4,739			5,988		
							6,855		
									5,800

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: MEDICAL/DENTAL EQUIPMENT			
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000
QUANTITY					
COST (In Mil)	\$12.389	\$15.254	\$13.295	\$12.443	\$12.841
					\$13.062
					\$6.443
					\$6.302

The Medical/Dental Equipment line provides war reserve material (WRM) in support of Air Force medical readiness/contingency requirements. The equipment is directly related to the care of individuals injured in combat with the objective of reducing the mortality rate and returning injured persons to their wartime duties as soon as possible.

1. The following WRM equipment is funded by this program:

## a. AIR TRANSPORTABLE HOSPITAL (ATH)

(1) **CHEMICALLY HARDENED AIR TRANSPORTABLE HOSPITAL (CHATH):** Multi-component equipment project. Prior year funding procured the first four airlocks which will be joined with the first four hospital equipment sets currently in WRM storage. These airlocks allow the movement of medicine, food, water, and the removal of wastes in/out of the ATHs without compromising hospital cleanliness or chemical/biological protection. These airlocks improve contamination control, temperature control, and chemical protection. Prior year funding also includes procurement of liner sets for four ATHs. Additional procurement of multi-component equipment for the ATH will continue FY97-99.

(2) **CHEMICALLY HARDENED AIR MANAGEMENT PLANTS (CHAMPS):** Significant component of the CHATH. CHAMPS adds to the chemically/biologically hardened environment of the ATH by providing contained air management. CHATH improves protection against chemical/biological agents, enhances environmental cleanliness, and helps prevent nosocomial infection. It allows medical personnel to deploy and setup in a chemical/biological threat area while minimizing the impact on medical operations. FY96-99 funding continues procurement of CHAMPS.

b. **TRANSPORTABLE BLOOD TRANSSHIPMENT CENTER (TBTC):** These centers are designed for the transport and storage of liquid and frozen blood. Each center provides the capability to store 7,200 units of liquid blood and 432 units of frozen blood for use in the treatment of combat injured personnel. FY96 fund completes funding for this requirement.

c. **DEFENSE BLOOD STANDARD SYSTEM (DBSS):** DOD-wide automated blood information management system for all elements of the Air Force blood program. DBSS will allow management of blood program operations such as collecting, manufacturing, testing, processing, freezing, storing, shipping, distributing, and issuing blood and blood products. FY96 completes funding for this program.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE MEDICAL DENTAL EQUIPMENT						
	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY								
COST (In Mil)								

- d. **PATIENT VENTILATOR SYSTEMS:** These are respirator systems for intra-theater/inter-theater air evacuation of patients requiring ventilator support. Systems include ventilator, patient monitors, and aircraft adapters; providing transport capable ventilators. FY96-98 funding procures a total of 655 ventilators. No FY99 funds requested.
- e. **AIR TRANSPORTABLE HOSPITAL (ATH) WATER DISTRIBUTION SYSTEM (ATH H2O):** Potable water/ waste water distribution system to support ATHs. FY98 and 99 funds will procure 10 in each year.
- f. **CIVIL RESERVE AIR FLEET (CRAF) SHIPSETS:** The shipsets are aircraft reconfiguration kits that will reconfigure commercial aircraft to an aeromedical configuration to carry litter patients, ambulatory patients, medical crews, and flight attendants in wartime or significant contingency operations. FY98 funding will procure 13 shipsets and FY99 funding will procure 12.
- g. **SPINAL CORD INJURY TRANSPORT SYSTEM (SCITS):** This integrated transport system is for air evacuation of critical patients. Units are self-contained with capability to provide oxygen, suction, pressure ventilation, and monitoring of life parameters. FY98 and 99 funds will procure 20 and 73 units respectively.
- h. **THEATER MEDICAL INFORMATION PROGRAM (TMIP):** This Integrated program consolidates all DOD medical information systems. FY99 funds begins procurement of automation equipment to support this program.
- i. **MISCELLANEOUS WRM EQUIPMENT:** FY96-99 funding provides for normal replacement of miscellaneous centrally-managed equipment items.
2. ANG/AFR: None.

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997					
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION								
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			MEDICAL/DENTAL EQUIPMENT				See Manufacturing Information on P-5A								
Weapon System Cost Elements			IDENT CODE		FY 1996			FY 1997			FY 1998			FY 1999	
					QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													
												D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION								
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		MEDICAL/DENTAL EQUIPMENT			See Manufacturing Information on P-5A								
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

	A	VAR	N/A	5,500	VAR	N/A	1,541	VAR	N/A	696	VAR	N/A	214
i. Misc WRM Equipment													
TOTAL				12,389			15,254			13,295			12,443

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997
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B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE MEDICAL/ DENTAL EQUIPMENT						
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

1. WRM EQUIPMENT										
A. ATH										
1. CHATH										
FY97	MULTIPLE 1	C/FP	AFMC/HSC 2	MULTI	MULTI	VAR	N/A	YES	NO	
FY98	MULTIPLE 1	C/FP	AFMC/HSC	MULTI	MULTI	VAR	N/A	YES	NO	
FY99	MULTIPLE 1	C/FP	AFMC/HSC	MULTI	MULTI	VAR	N/A	YES	NO	
2. CHAMPS										
FY96	ENGINEERED AIR SYSTEMS	OPT/FP 3	AFMS/HSC	SEP 96	JUL 97	20	100			
FY97	ENGINEERED AIR SYSTEMS	OPT/FP 3	AFMC/HSC	OCT 96	DEC 97	70	100			
FY98	ENGINEERED AIR SYSTEMS	OPT/FP 3	AFMC/HSC	OCT 97	DEC 98	35	100	YES	NO	
FY99	ENGINEERED AIR SYSTEMS	OPT/FP 3	AFMC/HSC	OCT 98	OCT 99	17	100	YES	NO	
B. TBTC										
FY96	MULTIPLE	C/FP	AFMC/HSC	NOV 96	JAN 97	1	1,364			

D. REMARKS										
1. MULTIPLE CONTRACT AWARDS FOR WRM ACQUISITIONS WITH VARIOUS CONTRACTORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.										
2. AFMC/HSC - AIR FORCE MATERIEL COMMAND, HUMAN SYSTEMS CENTER, BROOKS AFB, TX.										
3. AIR FORCE DOWN SELECTED ENGINEERED AIR SYSTEMS, ST. LOUIS, MO IN AUG 95 FOR DEVELOPMENT/PRODUCTION OF THE CHAMPS.										
4. ISSA - INFORMATION SYSTEMS SELECTION AND ACQUISITION AGENCY, WASH DC.										
5. AFMLO - AIR FORCE MEDICAL LOGISTICS OFFICE, FREDERICK, MD.										

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE MEDICAL/ DENTAL EQUIPMENT								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

C. DBSS															
D. PATIENT VENTILATOR SYSTEM	FY96	ARMY/ISSAA 4 CORDANT, INC RESTON VA	MIPR/OPT	AFMC/HSC	NOV 95	JUL 96	VAR	N/A							
	FY96	UNKNOWN	C/FP	AFMLO 5	FEB 97	JUN 97	110	11	YES	NO					
	FY97	UNKNOWN	OPT/FP	AFMLO	FEB 97	JUN 97	215	10	YES	NO					
	FY98	UNKNOWN	OPT/FP	AFMLO	FEB 98	JUN 98	340	9	YES	NO					
E. ATH/H2O															
FY98 FY99	UNKNOWN	C/FP	AFMLO	JUN 98	DEC 98	10	100	NO	YES	NOV 97					
	UNKNOWN	OPT/FP	AFMLO	JUN 99	DEC 99	10	100	NO	YES	NOV 98					

### D. REMARKS

1. MULTIPLE CONTRACT AWARDS FOR WRM ACQUISITIONS WITH VARIOUS CONTRACTORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
2. AFMC/HSC - AIR FORCE MATERIEL COMMAND, HUMAN SYSTEMS CENTER, BROOKS AFB, TX.
3. AIR FORCE DOWN SELECTED ENGINEERED AIR SYSTEMS, ST. LOUIS, MO IN AUG 95 FOR DEVELOPMENT/PRODUCTION OF THE CHAMPS.
4. ISSA - INFORMATION SYSTEMS SELECTION AND ACQUISITION AGENCY, WASH DC.
5. AFMLO - AIR FORCE MEDICAL LOGISTICS OFFICE, FREDERICK, MD.

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)											A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE MEDICAL/ DENTAL EQUIPMENT								
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL		

### F CRAF SHIPSETS

FY98

FY99

### G. SCITS

FY98

FY99

### H. TMIP

FY99

### I. MISC WRM EQUIPMENT

FY96

FY97

FY98

FY99

UNKNOWN	C/FP	AFMC/HSC	JUL 98	FEB 99	13	176	YES	NO
UNKNOWN	OPT/FP	AFMC/HSC	JUL 99	FEB 00	12	176	YES	NO
UNKNOWN	C/FP	AFMC/HSC	JAN 98	MAR 98	20	20	YES	NO
UNKNOWN	C/FP	AFMC/HSC	FEB 99	AUG 99	73	20	YES	NO
UNKNOWN	C/FP	AFMC/HSC	MAR 99	SEP 99	VAR	N/A	YES	NO
MULTIPLE 1	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO
MULTIPLE 1	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO
MULTIPLE 1	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO
MULTIPLE 1	C/FP	AFMLO	MULTI	MULTI	VAR	N/A	YES	NO

### D. REMARKS

- MULTIPLE CONTRACT AWARDS FOR WRM ACQUISITIONS WITH VARIOUS CONTRACTORS RESULTING IN MULTIPLE AWARD AND DELIVERY DATES.
- AFMC/HSC - AIR FORCE MATERIEL COMMAND, HUMAN SYSTEMS CENTER, BROOKS AFB, TX.
- AIR FORCE DOWN SELECTED ENGINEERED AIR SYSTEMS, ST. LOUIS, MO IN AUG 95 FOR DEVELOPMENT/PRODUCTION OF THE CHAMPS.
- ISSA - INFORMATION SYSTEMS SELECTION AND ACQUISITION AGENCY, WASH DC.
- AFMLO - AIR FORCE MEDICAL LOGISTICS OFFICE, FREDERICK, MD.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		ENVIRONMENTAL PROJECTS						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	-	\$ 935	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000	\$1.000

1. The Environmental Program includes projects to procure equipment necessary to support environmental compliance and pollution prevention laws, executive orders, regulations and goals. This program provides equipment related to reducing hazardous material use, hazardous waste generation and release of pollutants into the environment. Included in this program is equipment that supports, solid and hazardous waste recycling, the elimination of Air Force use of ozone depleting chemicals (ODC), hazardous waste recovery and treatment, air pollution reduction, and organic waste composting. The equipment is required for day-to-day operations and supports projects that further the Air Force objective of improving management practices in all areas regarding the environment.

Individual Projects - Following are FY97 through FY99 projects:

Tinker AFB, OK Vacuum Vapor Degreaser System (FY97) - This equipment is required to recover volatile degreasing solvents used to clean jet engine components. This equipment will eliminate the release of toxic substances into the environment. Recovered solvents will be recycled and reused.

Hill AFB, UT Wood Grinder (FY97) - Equipment is required to process wood debris for reuse in composting and landscaping. This equipment will eliminate the generation of approximately 75 tons of construction debris and municipal solid waste per month.

Hill AFB, UT Plastic Media Blast System (FY97) - Aircraft paint removal is currently accomplished using a chemical stripping process producing hazardous waste which must be treated/disposed. This equipment uses non-hazardous plastic media to accomplish stripping operations eliminating the use of chemical strippers and reducing the generation of hazardous waste.

Robins AFB, GA Separation/Filtration System (FY97) - The heat treatment and quenching process of aluminum alloy aircraft parts is currently accomplished using a water and quenchant (cooling) solution. As the quenching solution goes out of tolerance it is replaced/disposed. This equipment will allow the separation and recycling of the quenching solution for reuse.

Tinker AFB, OK Aluminum Vapor Plating System (FY98) - Plating of jet engine turbine components is currently accomplished using a traditional tank plating process. This equipment will accomplish aluminum plating via a chemical vapor plating process, eliminating the use of heavy metals and large volumes of plating solutions, resulting in a reduction of hazardous waste generation.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE & SUPPORT EQ				P-1 ITEM NOMENCLATURE							ENVIRONMENTAL PROJECTS	
	FY 1994	FY 1995	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001				
QUANTITY												
COST (In Mil)												

Robins AFB, GA Paint Stripping System (FY99) - Aircraft radome paint removal is currently accomplished using a chemical stripping process which results in release of Volatile Organic Compounds (VOCs) and generation of hazardous waste. This equipment uses a flashjet (heat) stripping process reducing release of VOCs and generation of hazardous waste.

2. ANG/AFR: None.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)													
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE FEBRUARY 1997				
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		ENVIRONMENTAL PROJECTS				MULTIPLE CONTRACTORS							
Weapon System Cost Elements		IDENT CODE	FY 1996			FY 1997			FY 1998			FY 1999	
			QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	UNIT COST	TOTAL COST
Tinker AFB Vacuum Vapor Degreaser	A							250					
Hill AFB Wood Grinder	A							175					
Hill AFB Plastic Media Blast System	A							330					
Robins AFB Separation/Filtration System	A							180					
Tinker AFB Aluminum Vapor Deposition System	A									1000			1000
Robins AFB Paint Stripping System	A			0				935			1,000		1,000

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)	\$2.922	\$4.861	\$4.214	\$12.105	\$12.626	\$354	-	-	-	

Air Force operations depend on an infrastructure of installations to support the projection of aerospace power. Air Base Operability (ABO) is an ongoing program to provide the integrated capability needed to establish and maintain air base readiness during contingencies. ABO integrates and coordinates those unit operations that interact during a contingency to establish, maintain or restore the installation's capability to execute assigned missions. ABO includes the planning, organizing, training, equipping, and command and control necessary for the installation to function as a team during contingencies, e.g., emergencies involving military forces caused by natural disaster, major accidents, terrorists, subversives, or by military operations. The current ABO program includes a number of systems designed to improve the ability of installations to establish and maintain readiness during contingencies.

1. Following are FY96 - 99 ABO projects:

a. **DEPLOYABLE PAVEMENT REPAIR SYSTEM.** This project provides mixing/dispersing hardware for the rapid repair of cracks and small craters. Improvements over the folded fiberglass mat method include (1) reduced crater maintenance once repaired, (2) stability of the repair, (3) increased safety in fighter tail hook and heavy aircraft operations, and (4) elimination of mat anchoring difficulties in full-depth asphalt pavements. FY96 funding procures five (5) systems and FY97 six (6) systems completing the total requirement for 13 systems. No FY98/99 funding requested.

b. **DEPLOYABLE FIRE PROTECTION SYSTEM (DFPS):** DFPS is a portable, stand-alone fire protection system designed to provide protection for hot pit refueling (equipment's engine remains running), high value facilities, and equipment. The system will augment the normal fire fighting equipment in a wartime environment by protecting aircraft during hot integrated combat turns and providing limited quick reaction protection for high value facilities/equipment during water outages. The system is activated by an optical flame detector which automatically detects fire, discharges an agent through an oscillating nozzle, and transmits an alarm over a radio network to the fire station control room. The system is self-contained, air transportable, and capable of being towed to any location to meet operational requirements. During hot pit refueling, the DFPS can begin applying an agent within ten seconds. The present protection consists of a truck and crew which can be up to one minute away. FY96-97 funding procures nine (9) and 15 units respectively. The total Air Force requirement for this system is 86 units.

c. **RAPID ORDNANCE REMOVAL SYSTEM (RORS).** This system provides explosive ordnance disposal capability to remove quantities of unexploded ordnance from aircraft operating surfaces, replacing hazardous and time consuming one-person/one-submunition clearance techniques. The system consists of a large blade mounted on a M-113 armored personnel carrier (GFE). Blade is capable of clearing both hard and soft surfaces. FY98 funding procures four (4) blades/assemblies. FY99 funding procures eight (8) blades/assemblies. Total requirement is 12 systems.

P-1 SHOPP LIST ITEM NO. 96	PAGE NO. 93
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE AIR BASE OPERABILITY						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)							\$0.000	\$0.000

d. **SHELTERS/ENVIRONMENTAL CONTROL UNITS (ECUS).** These units replace an existing generation of aging shelters and ECUs with a new generation of portable shelter systems that are less airlift intensive while providing the same or better operational performance as the existing shelters. The system includes the shelter, insulation, flooring, utilities interfaces, environmental control systems and other necessary components necessary to bed down contingency base operational forces.

(1) **MEDIUM SHELTERS/ECUS.** FY98 funding procures two (2) medium shelters for commercial-off-the-shelf (COTS) proof-of-concept testing and evaluation. FY99 funding procures eight (8) shelters.

e. **DEPLOYABLE POWER GENERATION AND DISTRIBUTION SYSTEM.** This system provides a new family of bare base electric power generation and distribution equipment required to improve capability and reduce deployment requirements for Harvest Eagle/Harvest Falcon kits. It supports bare base prime (high voltage) and tactical (low voltage) power production and delivery including secondary distribution centers, secondary power distribution panels, transformers, controls, cabling, and ancillary support equipment. FY98 funding procures one (1) system for COTS proof-of-concept testing and evaluation. FY99 funding procures two (2) systems.

f. **EXPLOSIVE ORDNANCE DEVICE (EOD) SUPPORT EQUIPMENT.** This equipment provides tools to defeat various improvised explosive devices, e.g., letter bombs, pipe bombs, truck bombs. FY98 and 99 funding will each procure three (3) systems.

g. **LIGHTWEIGHT MATTING.** This program provides deployable, lightweight, structural matting on airfield operating surfaces for installation over repairs or originally placed materials. It also provides flooring for deployed facilities such as command and control, maintenance, supply, billeting, messing and medical. FY99 funding will procure 50 commercial quality mats for testing which are more durable, lighter and cheaper.

h. **REVERSE OSMOSIS WATER PURIFICATION UNIT (ROWPU).** The ROWPU provides critical water purification capability to support deployment to remote locations. It removes suspended and dissolved solids from nearly any water source. FY99 provides funding for three (3) systems for COTS proof-of-concept testing and evaluation.

2. ANG/AFR: None.

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## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE FEBRUARY 1997			
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		AIR BASE OPERABILITY		See Manufacturing Information on P-5A					
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST (\$K)	TOTAL COST	QTY	UNIT COST (\$K)	TOTAL COST	QTY	UNIT COST (\$K)

a. Deployable Pavement Repair System	A	5	410	2,051	6	534	3,201												
b. DFPS	A	9	97	871	15	111	1,660	4	220	880	8	520	4,160						
c. RORS	A							2	100	200	8	142	1,139						
d.1. MediumShelters/ECUs	A							1	2,484	2,484	2	2,653	5,306						
e. Deployable Power Gen and Dist System	A							3	217	650	3	217	650						
f. EOD Spt Equipment	A										50	10	500						
g. Lightweight Matting	A										3	117	350						
h. ROWPU	A																		
TOTAL				2,922			4,861			4,214			12,105						

P-1 SHOPP LIST ITEM NO. 96	PAGE NO. 95	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE AIR BASE OPERABILITY							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
A. DEPLOYABLE PAVEMENT REPAIR SYSTEM											
FY96	ENTWISTLE	OPT/FP 1	AFMC/ASC	APR 97	OCT 97	5	410	YES	NO		
FY97	ENTWISTLE BOSTON MA	OPT/FP 1	AFMC/ASC	APR 97	DEC 97	6	534	YES	NO		
FY96	ENTWISTLE	OPT/FP 2	AFMC/ASC	JAN 98 <sup>3</sup>	SEP 98	9	97	YES	NO		
FY97	ENTWISTLE BOSTON MA	OPT/FP 2	AFMC/ASC	AUG 98	JAN 99	15	111	YES	NO		
C. RORS											
FY98	UNKNOWN	C/FFP	AFMC/ASC	NOV 97	MAY 98	4	220	YES	NO		
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	JAN 99	8	520	YES	NO		
D.1. MEDIUM SHELTERS/ECUS											
FY98	UNKNOWN	C/FFP	AFMC/ASC	DEC 97	MAY 98	2	100	YES	NO		
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	MAY 99	8	142	YES	NO		
D. REMARKS:											
1. OPTION TO A C/FPF CONTRACT AWARDED 18 DEC 92.											
2. OPTION TO PRIOR YEAR COMPETITIVE CONTRACT.											
3. DELAYED CONTRACT AWARD DUE TO CONTRACTOR REDESIGN DIFFICULTIES WITH DETECTOR AND SELF-AIMING NOZZLE.											
				P-1 SHOPP LIST ITEM NO.	96	PAGE NO.	96	Exhibit P-5a Procurement History and Planning			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)						A. DATE FEBRUARY 1997				
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE AIR BASE OPERABILITY							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

E. DEPLOYABLE POWER GENERATION AND DISTRIBUTION										
FY98	UNKNOWN	C/FFP	AFMC/ASC	AUG 98	DEC 98	1	2,484	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	DEC 98	2	2,653	YES	NO	
F. EOD SPT EQUIPMENT										
FY98	UNKNOWN	C/FFP	AFMC/ASC	FEB 98	AUG 98	3	217	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	MAY 99	3	217	YES	NO	
G. LIGHTWEIGHT MATTING										
FY99	UNKNOWN	C/FFP	AFMC/ASC	MAR 99	SEP 99	50	10	YES	NO	
H. ROWPU										
FY99	UNKNOWN	C/FFP	AFMC/ASC	NOV 98	APR 99	3	117	YES	NO	

D. REMARKS:			P-1 SHOPP LIST ITEM NO. 96		PAGE 97	Exhibit P-5a Procurement History and Planning
1. OPTION TO A C/FFP CONTRACT AWARDED 18 DEC 92. 2. OPTION TO PRIOR YEAR COMPETITIVE CONTRACT. 3. DELAYED CONTRACT AWARD DUE TO CONTRACTOR REDESIGN DIFFICULTIES WITH DETECTOR AND SELF-AIMING NOZZLE.						

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FY07 BUDGET PRODUCTION SCHEDULE										P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY												DATE: FEBRUARY 1987											
ITEM/MFG PROCUREMENT YEAR										FISCAL YEAR 97				FISCAL YEAR 98				FISCAL YEAR 99				LATER											
										CALENDAR YEAR 97				CALENDAR YEAR 98				CALENDAR YEAR 99															
										CY 96				CY 97				CY 98															
										OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP				OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP OCT NOV DEC JAN FEB MAR APR MAY JUN JUL AUG SEP																			
										1-Oct 1-Oct 1-Oct 1-Oct				1-Oct 1-Oct 1-Oct 1-Oct				1-Oct 1-Oct 1-Oct 1-Oct															
A. Deployable Pavement Repair System																																	
FY86																																	
FY87																																	
TOTAL																																	
B. DFPS																																	
FY86																																	
FY87																																	
TOTAL																																	
C. RORS																																	
FY88																																	
FY89																																	
TOTAL																																	
D.1. MEDIUM SHELTERS/ECU/S																																	
FY88																																	
FY89																																	
TOTAL																																	
MANUFACTURER'S NAME AND LOCATION																																	
SEE P-5A																																	

P-1 SHOPPING LIST  
ITEM NO. 96

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EXHIBIT P-21

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FY97 BUDGET PRODUCTION SCHEDULE		P-1 ITEM NOMENCLATURE: AIR BASE OPERABILITY												DATE: FEBRUARY 1997											
ITEM/MFG PROCUREMENT YEAR		CY 96			FISCAL YEAR 97			FISCAL YEAR 98			FISCAL YEAR 99			CALENDAR YEAR 97			CALENDAR YEAR 98			CALENDAR YEAR 99					
		QTY	PRIOR	DUE	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct	1-Oct				
E. DEPLOY PWR GEN AND DIST																									
	FY98	AF	1	0	1																				
	FY99	AF	2	0	2																				
	TOTAL		3	0	3																				
F. EOD SPT EQUIPMENT																									
	FY96	AF	3	0	3																				
	FY97	AF	3	0	3																				
	TOTAL		6	0	6																				
G. LIGHTWEIGHT MATTING																									
	FY99	AF	50	0	50																				
	TOTAL		50	0	50																				
H. ROWPU																									
	FY99	AF	3	0	3																				
	TOTAL		3	0	3																				
MANUFACTURER'S NAME AND LOCATION		PROD RATES		REACT		MIN		MAX		CH D		INITIAL		REORDER		TOTAL AFTER 1		OCT		REMARKS:					
SEE P-5A																									

**UNCLASSIFIED**

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ				P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	\$3.329	\$8.554	\$1.189	\$3.464	\$3.704	\$3.916	\$3.806	\$3.876

1. The HCU-6/E Air Cargo Pallet measures 108" x 88" and is constructed of an aluminum rail (frame) with aluminum thermally bonded to a balsa wood core. It is designed for operation in the 463L Cargo Handling System which standardizes specialized material handling vehicles (forklifts, K-Loaders and pallet dollies) and equipment (pallets) with the Air Force fleet of cargo aircraft (C-5, C-141, C-130, C-17 and KC-10) they support.
2. Pallets are an integral part of the military airlift system. They facilitate the maximum use of scarce airlift assets by allowing the pre-loading of aircraft cargo floors prior to the arrival of the airlift aircraft. For example, loading a C-141 aircraft with a maximum complement of cargo which is pre-palletized takes from one to two hours and a loading crew of four to five people. To load the same amount of cargo onto the aircraft without pallets would take eight to ten hours with the same crew (some types of cargo could not be loaded without pallets). Without sufficient 463L pallets, the military airlift system will not function efficiently and rapid go-to-war capabilities will be lost.
3. A typical cycle for a pallet headed for a war zone is (a) from the unit where cargo is loaded and restrained for flight, to (b) the flightline where it is staged pending arrival of the cargo aircraft, to (c) the cargo aircraft for the trip to the theater of operations where (d) it is offloaded from the aircraft and moved to a location where (e) the cargo is offloaded by the owning unit as they prepare for employment scenarios. The empty pallet is then aggregated with other empty pallets, loaded on returning cargo aircraft, and delivered to units that are moving later in the deployment flow.

4. Item Code: A

5. ANG/AFR:

		ANG	DOLLARS	QTY	AFR	DOLLARS
FY96	75		.062	25		.021
FY97	27		.022	81		.067
FY98	26		.023	75		.068
FY99	27		.023	80		.069

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE PALLET, AIR CARGO							
Cost Element/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

PALLET, AIR CARGO										
FY96	AAR CADILLAC CADILLAC, MI	OPT/FFP 1	AFMC/WRALC	NOV 95	JAN 96	4,000	832			
FY97	AAR CADILLAC CADILLAC, MI	OPT/FFP 1	AFMC/WRALC	DEC 96	JAN 97	4,272	832			
FY98	UNKNOWN	C/FP	AFMC/WRALC	JAN 98	OCT 98	1,311	907 2	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/WRALC	NOV 98	DEC 98	4,000	866 2	YES	NO	

D. REMARKS				P-1 SHOPP LIST ITEM NO.		PAGE NO.	Exhibit P-5a Procurement History and Planning	
1. FY96 AND FY97 ARE OPTIONS ON CONTRACT F09803-94C-1068, AWARDED SEP 94. TIME PERIOD FOR OPTION WAS EXTENDED ALLOWING OPTION FOR FY97 VICE NEW CONTRACT.				97		101		
2. FY98 AND FY99 ARE ESTIMATED PRICES.								

UNCLASSIFIED

# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: PALLET, AIR CARGO

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## DISPOSAL (Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:  
TOTAL DISPOSALS ( MONTHS)  
PROCUREMENT LEADTIME: 12 months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

## TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

## TOTAL FY99 REQUIREMENT

Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

## REMARKS:

P-1 SHOPP LIST  
ITEM NO. 97  
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# UNCLASSIFIED

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE NET ASSEMBLY, 108" X 88"				
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
COST (In Mil)	\$1.939	\$1.898	\$2.998	\$1.916	\$1.742	\$2.042	\$2.043
							\$2.125

1. The net assembly, which is used to secure air-shipped cargo to the 108" X 88" pallet, consists of two side nets and one top net. These nets are constructed of nylon straps assembled in the form of webs with adjusting tie-down straps and buckles. The net assemblies are used in the following 463L equipped cargo aircraft: C-130, C-141, C-5, C-17 and KC-10.
2. The Air Force Military Airlift System is dependent on 463L Pallet and Net Sets. Use of these assets reduces aircraft ground time and increases airlift capabilities. Without these critical assets, the orderly and prompt movement of all Department of Defense cargo throughout the airlift system would be impeded and could ultimately affect the outcome of a battle or war.

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			.081			.069
FY97			.030			.022
FY98			.032			.023
FY99			.032			.023

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# UNCLASSIFIED

WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME NET ASSEMBLY, 108" X 88"		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT											
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

Net Assembly, Top Net NSN 1670-00-969-4103CT	A	7,275	110.00	801	12,802	113.00	1,442	6,517	115.00	749	4,503	123.00	554
Net Assembly, Side Net NSN 1670-00-996-2780CT	A	12,199	93.00	1,138	4,810	95.00	456	23,422	96.00	2,249	12,971	105.00	1,362
TOTAL				1,939			1,898			2,998			1,916

P-1 SHOPP LIST ITEM NO. 98		PAGE NO. 105	Exhibit P-5 Weapon System Cost Analysis
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# UNCLASSIFIED

# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE: NET ASSEMBLY, 108"X88"						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

NET ASSEMBLY, TOP NET										
FY96	KINEDYNE CORP LAWRENCE, KS	C/FP	AFMC/WRALC	NOV 96 <sup>1</sup>	OCT 97	7,275	110.00			
FY97	KINEDYNE CORP LAWRENCE, KS	OPT/FP	AFMC/WRALC	FEB 97	JAN 98	12,802	113.00	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WRALC	JUN 98	APR 99	6,517	115.00	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/WRALC	MAR 99	JUL 99	4,503	123.00	YES	NO	
NET ASSEMBLY, SIDE NET										
FY96	KINEDYNE CORP LAWRENCE, KS	C/FP	AFMC/WRALC	NOV 96 <sup>1</sup>	OCT 97	12,199	93.00			
FY97	KINEDYNE CORP LAWRENCE, KS	OPT/FP	AFMC/WRALC	FEB 97	FEB 98	4,810	95.00	YES	NO	
FY98	UNKNOWN	C/FP	AFMC/WRALC	JUN 98	APR 99	23,422	96.00	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/WRALC	JUN 99	SEP 99	12,971	105.00	YES	NO	

REMARKS: 1. FY96 AWARD SLIPPAGE DUE TO REQUEST FROM PROSPECTIVE BIDDERS FOR CLARIFICATION ON TESTING PROCEDURES.			
P-1 SHOPP LIST ITEM NO. 98		PAGE NO. 106	Exhibit P-5a Procurement History and Planning

# UNCLASSIFIED

# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: NET ASSEMBLY 108' X 88', TOP NET

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT

## EQUIPMENT

### ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

### DISPOSAL(Planned & Projected thru FY99 FDP)

FY97 Since as of date:  
FY98  
FY99:  
FY00:  
FY01:  
FY02:  
TOTAL USAGE ( MONTHS)  
PROCUREMENT LEADTIME: months

### NET ASSETS:

### ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

### ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

### INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing

Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

TOTAL REQUIREMENT

### APPROVED ACQUISITION OBJECTIVE

### PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

### REMARKS:

P-1 SHOPP LIST  
ITEM NO. 98

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UNCLASSIFIED

UNCLASSIFIED  
REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

DISPOSAL (Planned & Projected thru FY99 FDP)

FY97 Since as of date:  
FY98  
FY99:  
FY00:  
FY01:  
FY02:  
TOTAL USAGE (    MONTHS)  
PROCUREMENT LEADTIME:    months

NET ASSETS:

ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: NET ASSEMBLY, 108' X 88', SIDE NET

INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing

Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

TOTAL REQUIREMENT

APPROVED ACQUISITION OBJECTIVE

PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

REMARKS:

P-1 SHOPP LIST  
ITEM NO. 98  
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[illegible]

P-1 SHOPPING LIST 98

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PAGE OF PAGES  
EXHIBIT P-21







BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	
APPROPRIATION/BUDGET ACTIVITY			P-1 ITEM NOMENCLATURE								
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			BLADDERS, FUEL								
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (In Mil)	\$3.927	\$1.909	\$2.749	\$3.022	\$3.453	\$5.385	\$5.389	\$5.467			

1. The fabric collapsible, 50K fuel bladder serves as a supply/storage tank for fuel at forward operating and bare base locations. Fuel is then transferred from the bladder to an aircraft by the R-14 refueling module which is the interface between the bladder and an aircraft. The R-14 refueling system is the only modularized refueling system in the Air Force inventory which is capable of supporting the operational commands' (Air Combat Command (ACC), Air Mobility Command (AMC), United States Air Forces Europe (USAFE), and Pacific Air Forces (PACAF)) bare base refueling requirements as well as supplementing selected main operating bases. Without this bladder, the R-14 refueling module is not a functional assembly. Failure to procure this requirement will preclude the using commands from having aircraft refueling capability in both peacetime and combat situations at bare base locations.
2. The 50K fuel bladder is constructed of either buna nitril rubber or polyurethane materials which have a five year shelf life. The shelf life on current assets expired in 1994 requiring the inventory to be replaced. The dimensions of the bladders are 24 feet by 65 feet, rectangular, with fittings in each end for pumping fuel into or out of the tank.

**3. Item Code: A**

4. ANG/AFR:

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			-			-
FY97			.012			-
FY98			-			-
FY99			-			-

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE					
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					BLADDERS, FUEL					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

50K FUEL BLADDER FY96	BELL AVON PICAYUNE, MS	OPT/FP 1	AFMC/SA-ALC	OCT 95	MAY 96	350	11,220			
FY97	BELL AVON PICAYUNE, MS	OPT/FP 1	AFMC/SA-ALC	OCT 96	MAY 97	159	12,018			
FY98	UNKNOWN	C/FFP	AFMC/SA-ALC	OCT 97	MAY 98	224	12,272	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	OCT 98	MAY 99	241	12,540	YES	NO	

D. REMARKS:				Exhibit P-5a Procurement History and Planning	
1. OPTION TO CONTRACT AWARDED JUN 93, ON P-1 LINE 103, MOBILITY EQUIPMENT.				PAGE NO.	
				P-1 SHOPP LIST ITEM NO.	99
				113	

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# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: BLADDERS, FUEL  
50K FUEL BLADDER

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND  
SUPPORT EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

## DISPOSALS(Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:  
TOTAL DISPOSALS ( MONTHS)  
PROCUREMENT LEADTIME: 7 months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

## TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

## PROCUREMENT REQUIREMENT

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

## REMARKS:

P-1 SHOPP LIST  
ITEM NO. 99

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE AERIAL BULK FUEL DELIVERY SYSTEM					
FY 1996		FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)		\$2,061	\$2,097	\$4,288	\$2,144	\$0,914	\$0,980	\$1,018

1. The Aerial Bulk Fuel Delivery System (ABFDS) provides the only means to transport bulk fuel in the cargo compartment of military aircraft. It is critical to the success of contingencies where normal ways to deliver fuel (fuel trucks and pipeline) are not available or have been destroyed. The system consists of an air cargo pallet mounted fuel delivery pumping module. In use the module is positioned at the rear of C-130, C-141, or C-5 aircraft. It pumps fuel from fuel trucks into 3,000 gallon fuel bladders which are prepositioned in the aircraft forward of the module; the number of bladders is dependent on the type of aircraft. At the aircraft destination, the fuel can be either pumped onto waiting fuel trucks or be pumped directly from the aircraft to nearby storage tanks/storage bladders. The ABFDS can be used for jet fuel, diesel fuel, or gasoline.
2. The majority of the current ABFDSs were procured in the mid-1960s, are equipped with gasoline engines and have far surpassed their 20-year service life. These older engines generate dangerous exhaust manifold temperatures and are a significant safety hazard capable of causing catastrophic aircraft and aircrew losses. These older systems have also experienced operational and mechanical problems due to parts obsolescence and overall deterioration due to age. The new system will have a diesel engine which operates on multi-fuels and generates lower exhaust temperatures.

3. Item Code: A
3. ANG/AFR: None

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				AERIAL BULK FUEL DELIVERY SYSTEM						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

AERIAL BULK FUEL DELIVERY SYS										
FY78	AIR LOGISTICS INC., SAN ANTONIO, TX	C/FFP	AFMC/SA-ALC	AUG 78	MAR 79	3	99,320			
FY97	UNKNOWN	C/FFP 1	AFMC/SA-ALC	APR 97	AUG 98	12	171,750 2	YES	NO	
FY98	UNKNOWN	OPT/FFP 1	AFMC/SA-ALC	MAY 98	APR 99	12	174,750 2	YES	NO	
FY99	UNKNOWN	OPT/FFP 1	AFMC/SA-ALC	NOV 99	OCT 99	24	178,667 2	YES	NO	

D. REMARKS				Exhibit P-5a Procurement History and Planning	
1. INDEFINITE QUANTITY CONTRACT WITH 5-YEAR ORDERING PERIOD				PAGE NO.	117
2. UNIT COSTS BASED ON CONTRACTOR ESTIMATE WITH INFLATION.				P-1 SHOPP LIST ITEM NO.	100

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# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
 P-1 ITEM NOMENCLATURE: AERIAL BULK FUEL DELIVERY SYSTEM (ABFDS)  
 APPROPRIATION / BUDGET ACTIVITY:  
 OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
 Due-in w/all Prior Years' Funds  
 Due-in w/FY97 Funds

TOTAL ASSETS:

58  
 0  
 12  
 70

## DISPOSALS (Planned & Projected thru FY99 FDP)

FY97 since as of date:

FY98:  
 FY99:  
 FY00:  
 FY01:

12  
 12  
 24  
 0  
 0

TOTAL USAGE (\_\_\_\_ MONTHS)

PROCUREMENT LEADTIME: 11 months

48

## NET ASSETS:

### ACTUAL TRAINING EXPENDITURE

FY96  
 FY95  
 FY94  
 FY93  
 FY92

22

### PROCUREMENT REQUIREMENT

Total FY98 Requirement  
 Less Net Assets  
 Required FY98 Procurement  
 Planned FY98 Procurement

59  
 22  
 37  
 12

### ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
 FY95  
 FY94  
 FY93  
 FY92

Total FY99 Requirement  
 Less Net Assets  
 Less FY98 Planned Procurement  
 Required FY99 Procurement  
 Planned FY99 Procurement

59  
 22  
 12  
 25  
 24

## REMARKS:

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 ITEM NO.100

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)				DATE		FEBRUARY 1997		
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE		PHOTOGRAPHIC EQUIPMENT				
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	\$6.010	\$6.083	\$6.063	\$5.730	\$6.122	\$6.261	\$6.015	\$6.129

The Photographic Equipment program procures still photographic, motion photography and graphic imaging equipment and equipment systems. These equipment items support Air Force reconnaissance and intelligence programs, Air Force test ranges, Combat Camera Still Photographic Documentation Teams and Base Visual Information Service Centers by replacing older, antiquated equipment that has either reached or exceeded maximum useful life or is unable to provide the speed or quality of resolution that provides critical visual information necessary for rapid and accurate command decisions. Visual Information Service Centers support commanders at all levels including the National Command Authority and the Chairman, Joint Chiefs of Staff. Equipment included are processors, still and motion cameras (conventional and digital), film and digital processors, developing and finishing equipment and film/video projection systems. FY96-99 funding is described below.

1. **PHOTO PROJECTION EQUIPMENT (FSC 6730).** FY96-99 funding continues procurement of film and electronic projection systems. The program is designed to incorporate the use of electronic projection systems where appropriate. As the use of film based systems diminishes, electronic projection systems are needed to display electronic imagery. The transition to electronic imagery is the result of technology growth and the need to reduce/eliminate film/chemical based systems to protect the environment.
2. **PHOTO EQUIPMENT AND ACCESSORIES (FSC 6760).** FY97-99 funding will procure replacement specialized film-based photographic systems that cannot be replaced by electronic imagery. These new systems will replace aging, antiquated equipment. These newer systems comply with or exceed federal and state environmental regulations and are required because of their ability to provide full resolution capability that electronic systems do not yet meet.
3. **ELECTRONIC IMAGING CENTER EQUIPMENT CONVERSIONS.** In FY92 the Air Force implemented a service-wide program to integrate and install electronic and digital still and graphic imaging systems in all Air Force Base Visual Information Service Centers. The initiative recognized that technology was forcing conversion of film based photographic and graphic systems into digital camera systems, multi-media processing systems, digital photographic processing systems, digital graphic imaging systems, image database banks, image network hubs and image presentation systems. This initiative standardizes these systems for insured interoperability between systems and locations. Additionally, this initiative recognized that electronic imaging would provide commanders with responsive near real-time vital imagery from anywhere in the world. Seventy-seven Air Force bases had electronic imaging systems installed in FY93 and FY94. In FY98/99 electronic imaging systems facing obsolescence will begin to be replaced.

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**BUDGET ITEM JUSTIFICATION**

(EXHIBIT P-40)

DATE \_\_\_\_\_

FEBRUARY 1997

**APPROPRIATION/BUDGET ACTIVITY****OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ**

## P-1 ITEM NOMENCLATURE

## PHOTOGRAPHIC EQUIPMENT

	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

#### 4. ANG/AFR

		ANG			AFR	
	QTY		DOLLARS	QTY		DOLLARS
FY96			3.792			-
FY97			-			-
FY98			-			-
FY99			-			-

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**PAGE NO.**

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			Multiple Vendors			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		PHOTOGRAPHIC EQUIPMENT									
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	TOTAL COST	

1. Photo Projection Equipment (FSC 6730)	A		500			1,000			1,000		1,000
2. Photo Equipment and Accessories (FSC 6760)	A					3,500			3,500		3,000
3. Electronic Imaging Center Conversions	A		5,510			1,583			1,563		1,730
TOTAL			6,010			6,083			6,063		5,730

P-1 SHOPP LIST ITEM NO. 101		PAGE NO. 123	Exhibit P-5 Weapon System Cost Analysis
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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		PRODUCTIVITY INVESTMENTS						
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mill)	\$17.349	\$9.970	\$5.980	\$8.956	\$3.976	\$0.000	\$0.000	\$0.000

1. This program funds the Air Force Productivity Enhancing Capital Investment (PECI) projects in the Productivity Investment Fund (PIF) and the Fast Payback Capital Investment (FASCAP) programs. Investment funds are available to all Air Force organizations to encourage productivity enhancements for more efficient operations and focus on labor cost savings and reduction in unit cost of operations. These programs conserve critical resources, enhance unit capability, and improve combat effectiveness. The users (MAJCOMs) provide the offsets from projected savings to sustain future investments for these programs. Thus, these programs are funded by the MAJCOMs.

a. To qualify for the PIF program, projects must cost over \$200,000 and amortize in less than four years. Funds are approved by Air Force based on a prioritization of projects and availability of funds. By AF policy, top priority is given to PIF projects with investments that amortize in the shortest period of time and have the highest rate of return on investment. To date, PIF projects have yielded life cycle savings of over \$21 for every \$1 invested.

b. To qualify for the FASCAP program, projects must cost less than \$200,000 and amortize in less than two years. Projects are approved by MAJCOMs based on the shortest amortization period and best return on investment. To date, FASCAP projects have yielded life cycle savings of over \$9 for every \$1 invested.

2. The FY96 program consisted of \$15.721 million for PIF and \$1.628 for FASCAP projects.

3. The FY97 program consisted of \$2.977 million for PIF projects and \$6.993 million for FASCAP projects; FY98 program consists of \$5.980 million for FASCAP projects; and FY99 program consists of \$8.956 million for FASCAP projects.

4. ANG/AFR: None

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION				D. DATE FEBRUARY 1997	
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		PRODUCTIVITY INVESTMENTS				MULTIPLE CONTRACTORS					
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	

Productivity Investment Fund (PIF)											
a. AN/TGC-27-28 Replacement (Air Combat Command)			10,638								
b. Wang Hardware Replacement (Air Forces Services Agency)			2,000	2,602							
c. Electronic Security Equipment (Pacific Air Forces)			3,083	375							
d. High Frequency Consolidation (Pacific Air Forces)											
Fast Payback Capital Investment (FASCAP)			1,628	6,993			5,980			8,956	
TOTAL			17,349	9,970			5,980			8,956	

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE & SUPPORT EQUIPMENT				P-1 ITEM NOMENCLATURE							
				MOBILITY EQUIPMENT							
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003			
COST (In Mil)	\$29.444	\$21.239	\$26.524	\$28.766	\$29.452	\$30.115	\$4.727	\$4.813			

1. This P-1 line supports Air Force Bare Base mobility equipment...better known as Harvest Falcon (HF) and Harvest Eagle (HE). Designed and sized to support two simultaneous Major Regional Contingencies (MRC), it provides theater warfighters billeting, industrial, and airfield capability to support a total of 68,200 combat troops, 822 aircraft, at 15 austere locations, building complete bases from ground up. Of the two systems, HF is the newest and has the greatest capability (housekeeping + air base infrastructure). It is an outgrowth of the FY90-94 Defense Guidance that tasked the Air Force to support United States Central Command (USCENTCOM) Rapid Deployment Forces and save on critical airlift resources through theater prepositioning. The outstanding reputation of the AF Bare Base program, established during the Gulf War, has continued in successive Military-Operations-Other-Than-War (MOOTW) throughout the world. These include Operations Southern Watch, Provide Relief, Provide Promise, Provide Comfort, Restore Hope, Sea Signal, Uphold Democracy, Joint Endeavor, and now Desert-Focus. Harvest Falcon remains a very top Priority with USCINCENT.

2. The unparalleled success of the AF Bare Base program and the unending demand for it to support MOOTW has taken its toll on equipment. As a result the majority of HF & HE requires comprehensive repair or replacement. Much equipment has been in use for over three years, well beyond design parameters.. This makes AF Bare Base mobility equipment reinvestment funding a most crucial issue.

3. Funding in FY98/99 continues to procure refueling system equipment required to cover HF War Reserve Material (WRM) deficits in fuel bladders and mobile hydrants. Replacements for water distribution packages and laundry units will be procured in FY 98/99. HF water distribution packages will also have the latest configurations to provide enhanced "curb service" to other Bare Base systems such as HE and air transportable hospitals. Latest configuration laundry units will be self-help field systems vs bulk systems that proved maintenance intensive for service technicians (no longer assigned mobility taskings) to run and maintain. Additional runway sub-systems and electrical sub-systems to be procured in FY98/99 cover WRM deficits and/or non-reparable items returned from MOOTW. Shelter/facilities procured in FY98/99 will continue to cover WRM deficits created through MOOTW deployments. Initial deployment kitchens will be all electric vs fuel-burning units that proved difficult to maintain during Desert Shield/Storm. The small shelter Environmental Control Unit (ECU) to be procured in FY99 replacing older generation air conditioners well past their useful lifespan. Also additional four thousand Square foot facilities will be procured.

4. ANG/AFR: None.

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY EQUIPMENT		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A							
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K		

A. Refueling Systems													
(1) R-14 Mobile Hydrant	A	14	\$ 93	\$ 1,302	14	\$ 93	\$ 1,302	50	\$ 8	400	42	\$ 8	336
(2) 10K Fuel Bladder	A	16	7.5	120	82	12.1	993	25	15	375	21	15	315
(3) 50K Fuel Bladder	A												
(4) Fuel Filter Separator	A	30	10	300									
(5) Injector Pump	A	40	10.9	436									
(6) R-22 Mobile Hydrant	A							6	19	114			
B. Refrigeration Equipment													
(1) Refer Panel, 10K	A	14	6	84							15	6	90
(2) Refer Panel, 5K	A	138	6	828									
(3) Refer Box, 150 cu. ft.	A	52	6.8	354									
(4) Refer Box, 1200 cu. ft.	A	8	20	160									
(5) Refer Panel, 300 cu. Ft.	A							690	11.7	8,073	42	25	1,050
(6) Environmental Ctrl Unit	A										752	12.7	9,551
C. Water Systems													
(1) Latrines	A	23	22.4	516							30	26	780
(2) Water Loop Package	A	21	296	6,216	4	318.2	1,306	3	318.2	955	2	318.2	637
(3) Rev-Osmosis W/tr Pur Unit	A				12	79.7	957	59	2.4	142	53	2.4	128
(4) 3K Onlon Tank	A	82	2.4	197									

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE			
(Costs in Thousands of Dollars)										FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			D. DATE					
OPAF/Other Base Maintenance and Support Equipment		MOBILITY EQUIPMENT			See Manufacturing Information on P-5A								
Weapon System Cost Elements		FY 1996			FY 1997			FY 1998			FY 1999		
IDENT CODE		QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K

(5) Self-Help Laundry	A				55	23.4	1,287	68	23.4	1,594	34	23.9	813
(6) 20K Water Bladder	A							130	6.8	884	16	6.8	109
(7) 9-1 Kitchen Water	A										30	25	750
(8) Shower Unit	A										35	16.9	592
(9) Shave Unit	A										30	11.1	333
<b>D. Runway Sub-Systems</b>													
(1) Revetment Kits	A	47	33.2	1,561									
(2) Remote Area Light Sets	A				41	32.3	1,325						
(3) Conting Airfield Light Sets	A	3	460	1,380									
(4) Lightweight Flooring	A	196	16.6	3,254									
<b>E. Electrical Sub-Systems</b>													
(1) Secondary Dist. Center	A	128	18.8	2,407	92	19.4	1,785	102	19.4	1,979	64	21.3	1,364
(2) 750Kw Generator	A	22	187.3	4,121	21	188.7	3,963						
(3) 60 Wheel Kit	A				2	1.1	3						
(4) Kitchen Elect. 1100	A										6	30	180
<b>F. Shelters/Facilities</b>													
(1) ESC, NDI	A	3	80	240									
(2) ESC, Parachute 1	A	1	78	78									

P-1 SHOPP LIST ITEM NO. 103		PAGE NO. 128	Exhibit P-5 Weapon System Cost Analysis
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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5) (Costs in Thousands of Dollars)									
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.			B. WEAPON MODEL/SERIES/ POPULAR NAME MOBILITY EQUIPMENT			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION See Manufacturing Information on P-5A			D. DATE FEBRUARY 1997
OPAF/Other Base Maintenance and Support Equipment									
Weapon System Cost Elements	IDENT CODE	FY 1996			FY 1997			FY 1998	
		QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K	TOTAL COST/K	QTY	UNIT COST/K

(3) ESC, Common	A	8	\$ 57.8	\$ 463	30	131.1	3,933	30	131.1	3,933	\$	\$
(4) ESC, Life Support	A	4	67.8	272								
(5) 4K Sq. Ft. Facility	A											
(6) General Purpose Shelter	A	30	105.8	3,174								
(7) Temper Tent (Tan)	A	196	8.3	1,627								
(8) Kitchen Tentage, 550	A	9	37	354	10	438.5	4,385	14	395.4	5,536	6	395.4
(9) Initial Deployment Kit.	A							250	.3	75	200	.3
(10) Light Set, Tent	A										27	52
(11) 1100 Kitchen Tentage	A							100	16	1,600	203	16
(12) Small Shelter ECU	A											
G. Miscellaneous												
(1) Ship/Storage Containers	A							120	7.2	864	100	7.2
TOTAL				29,444			21,239			26,524		28,766



# UNCLASSIFIED

## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### R-14 Mobile Hydrant

FY 1996  
FY 1997

#### 10K Fuel Bladder

FY 1996  
FY 1998  
FY 1999

#### 50K Fuel Bladder

FY 1991  
FY 1997  
FY 1998  
FY 1999

#### Fuel Filter Separator

FY 1996

#### Injector Pump

FY 1996

#### R-22 Mobile Hydrant

FY 1984  
FY 1998

Entwhistle Corp. MA	Option	AFMC/SA-ALC	Mar 96	Mar 97	14	93				
Entwhistle Corp. MA	Option	AFMC/SA-ALC	Nov 96	Nov 97	14	93				
Bell Avon, MS	Option	AFMC/SA-ALC	Mar 96	Mar 97	16	7.5				
Unknown	C/FP	AFMC/SA-ALC	Nov 97	Jul 98	50	8	Yes		No	
Unknown	Option	AFMC/SA-ALC	Nov 98	Dec 98	42	8	Yes		No	
Bell Avon, MS	C/FP	AFMC/SA-ALC	Dec 92	Apr 94	252	8.2				
Bell Avon, MS	Option	AFMC/SA-ALC	Oct 96	Nov 96	82	12.1				
Bell Avon, MS	Option	AFMC/SA-ALC	Nov 97	Jun 98	25	15	Yes		No	
Unknown	C/FP	AFMC/SA-ALC	Nov 98	Nov 99	21	15	Yes		No	
Isometrics Inc. NC	C/FP	AFMC/SA-ALC	Sep 96	Jul 97	30	10				
Hammond Tech Serv. TX	C/FP	AFMC/SA-ALC	Sep 96	Apr 97	40	10.9				
Peabody Barnes, OH	C/FP	AFMC/MR-ALC	Jun 95	Dec 95	13	21.8				
Unknown	C/FP	AFMC/MR-ALC	Apr 98	Jan 99	6	18.7	Yes		No	

### D. REMARKS:

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

#### Refer Panel 10K

FY 1995  
FY 1996  
FY 1999

#### Refer Panel, 5K

FY 1995  
FY 1996

#### Refer Box, 150 cu. ft.

FY 1991  
FY 1996

#### Refer Box 1200 cu. ft.

FY 1994  
FY 1996

#### Refer Box, 300 cu. Ft.

FY 1999

#### Environmental Control Unit

FY 1990  
FY 1998  
FY 1999

#### Lathines

FY 1994  
FY 1996  
FY 1999

Keco Inc, KY Unknown Unknown	C/FP C/FP Option	AFMC/SA-ALC AFMC/SA-ALC AFMC/SA-ALC	Aug 95 Mar 97 Nov 98	Aug 96 Mar 98 Dec 98	26 14 15	6 6 6	No Yes No			
Keco Inc, KY Unknown	C/FP C/FP	AFMC/SA-ALC AFMC/SA-ALC	Sep 95 Mar 97	Nov 96 Nov 98	40 138	5.4 6	No Yes			
Army/W. H. Porter, MI Unknown	MIPR MIPR	AFMC/SA-ALC AFMC/SA-ALC	Sep 91 Apr 97	May 92 Oct 97	102 52	5.5 6.8	No Yes			
Army/W. H. Porter, MI Army/Unknown	MIPR/OPT/FP MIPR/OPT/FP	AFMC/SA-ALC AFMC/SA-ALC	Sep 94 Apr 97	Oct 94 Oct 97	16 8	20 20	No Yes			
Army/ Unknown/FP	MIPR/C/FP	AFMC/SA-ALC	Aug 99	Jun 00	42	25	No			
Air Tech Inc., LA Unknown Unknown	C/FP C/FP C/FP	AFMC/SA-ALC AFMC/SA-ALC AFMC/SA-ALC	Mar 90 Mar 98 Mar 99	Apr 93 Feb 99 Feb 00	244 690 752	4.4 11.7 12.7	No Yes No			
Engineered Air, MO Unknown Unknown	Option C/FP OPT/C/FP	AFMC/WR-ALC AFMC/WR-ALC AFMC/WR-ALC	Jul 94 Mar 97 Aug 99	Dec 94 Sep 98 Jun 00	19 23 30	20.7 22.4 26	No Yes No			

#### D. REMARKS:

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### Water Loop Package

FY 1996	Engineered Air, MO	Option	AFMC/WR-ALC	Nov 95	May 96	21	296			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Dec 97	Jun 98	4	318.2	Yes	No	
FY 1998	Unknown	OPT/FP	AFMC/WR-ALC	Nov 98	May 99	3	318.2	Yes	No	
FY 1999	Unknown	OPT/FP	AFMC/WR-ALC	Dec 99	Jun 00	2	318.2	Yes	No	
<b>Reverse Osmosis Water Purif. Unit</b>										
FY 1997	Army/ Hilland Eng., MI	MIPR	AFMC/WR-ALC	Nov 96	Aug 97	12	79.7			
<b>3K Onlon Tank</b>										
FY 1996	American Fuel Cel., MS	C/FP	AFMC/SA-ALC	Aug 96	Jan 97	82	2.4			
FY 1998	American Fuel Cel., MS	Option	AFMC/SA-ALC	Nov 97	May 98	59	2.4	Yes	No	
FY 1999	Unknown	C/FP	AFMC/SA-ALC	Nov 98	Sep 99	53	2.4	Yes	No	
<b>Self-Help Laundry</b>										
FY 1990	Cemilt, GA	SS	AFMC/WR-ALC	Oct 90	Dec 90	7	27.7			
FY 1997	Unknown	C/FP	AFMC/WR-ALC	Jun 97	Jul 98	55	23.4	Yes	No	
FY 1998	Unknown	OPT/FP	AFMC/WR-ALC	Feb 98	Nov 98	68	23.4	Yes	No	
FY 1999	Unknown	OPT/FP	AFMC/WR-ALC	Dec 98	Jan 99	34	23.9	Yes	No	
<b>20K Water Bladder</b>										
FY 1991	Calif. Inflation, CA	C/FP	AFMC/SA-ALC	Jul 92	Jan 94	334	6.8			
FY 1998	Unknown	C/FP	AFMC/SA-ALC	Apr 98	Apr 99	130	6.8	Yes	No	
FY 1999	Unknown	OPT/FP	AFMC/SA-ALC	Jan 99	Feb 00	16	6.8	Yes	No	

#### D. REMARKS:

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

#### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### 9-1 Kitchen Water

FY 1999

#### Shower Unit

FY 1999

#### Shave Unit

FY 1999

#### Revelment Kits

FY 1996

#### Remote Area Light Sets

FY 1991

FY 1997

#### Contingency Airfield Lighting System

FY 1996

#### Lightweight Flooring

FY 1996

#### Secondary Distribution Center

FY 1996

FY 1997

FY 1998

FY 1999

Unknown	C/FP	AFMC/SA-ALC	Jan 99	Feb 00	30	25	Yes	No	
Unknown	C/FP	AFMC/WR-ALC	Jan 99	Nov 99	35	16.9	Yes	No	
Unknown	C/FP	AFMC/WR-ALC	Jan 99	Nov 99	30	11.1	Yes	No	
Engineered Air, MO	C/FP	AFMC/WR-ALC	Nov 95	Jun 96	47	33.2			
Unicor, VA	C/FP	AFMC/SA-ALC	Sep 93	Oct 96	63	28.7			
Unicor, VA	SS/FP	AFMC/SA-ALC	Mar 97	Jun 97	41	32.3	Yes	No	
Multi-Elec, IL	C/FP	AFMC/ASC	Apr 96	Jun 96	3	460			
AAR Corp, MI	C/FP	AFMC/WR-ALC	Jun 96	Jun 97	196	16.6			
Cemirf, TX	OPT/FP	AFMC/SM-ALC	Mar 97	Aug 97	128	18.8			
Essex EE, IL	Option/FP	AFMC/SM-ALC	Apr 97	Sep 98	92	19.4	Yes	No	
Essex EE, IL	OPT/FP	AFMC/SM-ALC	Jul 98	Dec 98	102	19.4	Yes	No	
Unknown	C/FP	AFMC/SM-ALC	Dec 98	Jun 99	64	21.3	Yes	No	

#### D. REMARKS:

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

#### 750 Kw Generator

FY 1991  
FY 1996  
FY 1997

#### 60 KW Wheel Kit

FY 1993  
FY 1997

#### Kitchen Elect. 1100

FY 1999

#### ESC NDI

FY 1996

#### ESC, Parachute 1

FY 1996

#### ESC, Common

FY 1996

#### ESC, Life Support

FY 1996

#### 4 K Sq Ft Facility

FY 1994  
FY 1997  
FY 1998  
FY 1999

MC II Corp, Tx	C/FP	AFMC/SM-ALC	Sep 93	Sep 94	95	165				
Unknown	C/FP	AFMC/SM-ALC	Mar 97	Apr 98	22	187.3	Yes	No		
Unknown	Option/FP	AFMC/SM-ALC	Aug 97	Jun 98	21	188.7	Yes	No		
Prototype, Inc., IL	C/FP	AFMC/SM-ALC	May 93	Aug 93	72	1.0				
Unknown	C/FP	AFMC/SM-ALC	Apr 97	Apr 98	2	1.1	Yes	No		
Unknown	C/FP	AFMC/MR-ALC	Feb 99	Apr 00	6	30	Yes	No		
Gichner Sys Inc, PA	C/FP	AFMC/MR-ALC	Nov 95	Feb 96	3	80				
Gichner Sys Inc, PA	C/FP	AFMC/MR-ALC	Nov 95	Jan 97	1	78				
Gichner Sys Inc, PA	C/FP	AFMC/MR-ALC	Nov 95	Nov 96	8	57.8				
Gichner Sys Inc, PA	C/FP	AFMC/MR-ALC	Nov 95	Aug 96	4	67.8				
Universal Fabric, PA	Option	AFMC/MR-ALC	Jan 95	Jan 96	8	110.28				
Unknown	C/FP	AFMC/MR-ALC	Jun 97	Feb 98	30	131.1	Yes	No		
Unknown	Option/FP	AFMC/MR-ALC	Oct 97	Sep 98	30	131	Yes	No		
Unknown	C/FP	AFMC/MR-ALC	Nov 98	Jan 99	30	131	Yes	No		

### D. REMARKS:

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Exhibit P-5a Procurement History and Planning

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

#### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### General Purpose Shelter

FY 1996

#### Temper Tent (Tan)

FY 1996

#### Kitchen Tentage, 550

FY 1996

#### Initial Deployment Kitchen

FY 1991

FY 1997

FY 1998

FY 1999

#### Light Set, Tent

FY 1991

FY 1998

FY 1999

#### 1100 Kitchen Tentage

FY 1999

AAR Corp. MI	Option/ FP	AFMC/WR-ALC	Nov 95	Jul 96	30	105.8				
DLA/Outdoor Venture, KY	C/FP/MIPR	AFMC/WR-ALC	Feb 96	Apr 97	196	8.3				
DLA/Outdoor Venture, KY	C/FP/MIPR	AFMC/WR-ALC	Jun 96	Jul 97	9	37				
Army/MTC Inc, OH	C/FP/MIPR	AFMC/WR-ALC	Dec 92	Jun 95	1	750				
Army/Unknown	C/FP/MIPR	AFMC/WR-ALC	Mar 97	Apr 98	10	438.5	Yes		No	
Army/Unknown	Option/FP/ MIPR	AFMC/WR-ALC	Nov 97	Feb 99	14	395.4	Yes		No	
Army/Unknown	Option/FP/ MIPR	AFMC/WR-ALC	Nov 98	Jun 99	6	395.4	No		Yes	Nov 97
Unicor, VA.	SS/FFP	AFMC/WR-ALC	Feb 93	Dec 94	3,421	.3				
Unicor, VA	SS/FFP	AFMC/WR-ALC	Dec 97	Jul 98	250	.3	Yes		No	
Unicor, VA	SS/FFP	AFMC/WR-ALC	Dec 98	Jul 99	200	.3	Yes		No	
Unknown	C/FP	AFMC/WR-ALC	Dec 98	Jan 00	27	52	Yes		No	

#### D. REMARKS:

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

(Costs in Thousands of Dollars)

A. DATE  
FEBRUARY 1997

### B. APPROPRIATION/BUDGET ACTIVITY

#### OPAF/Other Base Maintenance and Support Equipment

### C. P-1 ITEM NOMENCLATURE:

#### MOBILITY EQUIPMENT

COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
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#### Small Shelter ECU

FY 1998

FY 1999

#### Shipping/Storage Container

FY 1995

FY 1998

FY 1999

Unknown	C/FP	AFMC/WR-ALC	Jan 98	Oct 99	100	16	Yes	No	
Unknown	Option/FP	AFMC/WR-ALC	Dec 98	Feb 00	203	16	Yes	No	
DLA/ AAR Corp. MI	MIPR/FP	AFMC/WR-ALC	Jan 95	Jun 95	206	7.2	Yes	No	
DLA/Unknown	MIPR/FP	AFMC/WR-ALC	Nov 97	Feb 98	120	7.2	Yes	No	
DLA/Unknown	MIPR/FP	AFMC/WR-ALC	Nov 98	Feb 99	100	7.2	Yes	No	

### D. REMARKS:

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS					
QUANTITY	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
COST (In Mil)	\$3.299	\$1.946	\$2.013	\$2.245	\$1.839	\$3.607	\$3.512	\$3.566

1. This family of containers is airliftable, portable, stackable, and weatherproof. The containers come in different sizes and are made of fiberglass reinforced plywood. They can be stacked up to two units high when loaded. Load capacity varies up to 10,000 pounds, are moveable with a standard 10,000 pound forklift, and are certified for helicopter external lift. They are designed to ship large quantities of assets economically, safely and quickly, providing minimum time for loading, unloading, and set-up for use. The containers also provide physical security and protection from the elements as well as organization of contents for quick retrieval when required. They fit into aircraft to utilize the least amount of space with the most amount of equipment possible.
2. These containers are required for prepositioning of mobility assets and more complete/efficient use of limited air transport space. They are compatible with all modes of transport, whereas the cardboard and plywood boxes and the strapping of loose equipment to pallets are not. With older containers, the user manually handles equipment requiring more time and manpower. With the deployment/employment containers, fewer aircraft are required for transport and less manpower is required for packing, setting up and retrieval of assets.

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			1.664			.216
FY97			1.039			.161
FY98			1.044			.208
FY99			1.181			.226

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997			
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			See Manufacturing Information on P-5A					
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		DEPLOYMENT/EMPLOYMENT CONTAINERS											
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999					
IDENT CODE	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	TOTAL COST			
1. Container, 84x42X30 NSN 8145-01-118-9872	A	707	1,541	1,090	200	1,587	317	250	1,635	409	273	1,684	460
A. First Article		2	1,065	2									
2. Container, 84x42x60 NSN 8145-01-118-9873	A	419	1,943	814	350	2,001	700	351	2,061	723	375	2,123	796
A. First Article		2	6,700	14									
3. Container, 62x42x30 NSN 8145-01-118-9874	A	291	1,463	426	391	1,539	602						
A. First Article		2	40,375	81									
4. Container, 62x42x52 NSN 8145-01-118-9882	A	32	1,843	59	32	1,899	61				32	2,000	64
A. First Article		2	1,650	3									
5. Container, 84x42x52 NSN 8145-01-118-9883	A	2	4,468	9	2	4,566	9						

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME DEPLOYMENT/EMPLOYMENT CONTAINERS				C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		See Manufacturing Information on P-5A			
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	QTY	UNIT COST *	TOTAL COST	TOTAL COST	

6. Container, 62x42x60 NSN 8145-01-118-9884	A	425	1,875	797	136	1,892	257	450	1,958	881	459	2,016	925
A. First Article		2	1,778		4								
Total			3,299				1,946			2,013			2,245

* UNIT COSTS ARE IN ACTUAL DOLLARS. E.G., ONE THOUSAND FIVE HUNDRED AND FORTY ONE DOLLARS.	P-1 SHOPP LIST ITEM NO. 104	PAGE NO. 139	Exhibit P-5 Weapon System Cost Analysis
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				DEPLOYMENT/EMPLOYMENT CONTAINERS						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. CONTAINER, 84X42X30 NSN 8145-01-118-9872 FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	DEC 96	246	1,541			
FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	SEP 96	FEB 97	461	1,541			
FY96 FIRST ARTICLE	FIBER REINFORCED PLASTICS COLUMBUS, OH	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	1,065 1			
FY97	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (1 <sup>st</sup> YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	200	1,587	YES	NO	
FY98	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (2 <sup>nd</sup> YEAR)	AFMC/WR-ALC	OCT 97	MAY 98	250	1,635	YES	NO	
FY99	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (3 <sup>rd</sup> YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	273	1,684	YES	NO	

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS		P-1 SHOPP LIST		PAGE NO.	
		ITEM NO.	104	140	
1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.					
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.					
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.					
		Exhibit P-5a Procurement History and Planning			

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	

2. CONTAINER, 84X42X60  
NSN 8145-01-118-9873  
FY96

FY96  
FIRST ARTICLE

FY97

FY98

FY99

TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	DEC 96	419	1,943				
PAINTER DESIGN & ENG SANTA FE SPR, CA	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	6,700 <sup>1</sup>				
PAINTER DESIGN & ENG SANTA FE SPR, CA	OPT/FP 2 (1 <sup>ST</sup> YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	350	2,001	YES	NO		
PAINTER DESIGN & ENG SANTA FE SPR, CA	OPT/FP 2 (2 <sup>ND</sup> YEAR)	AFMC/WR-ALC	OCT 97	MAY 98	351	2,061	YES	NO		
PAINTER DESIGN & ENG SANTA FE SPR, CA	OPT/FP 2 (3 <sup>RD</sup> YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	375	2,123	YES	NO		

## D. REMARKS \* UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

Exhibit P-5a Procurement History and Planning

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# UNCLASSIFIED

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY					C. P-1 ITEM NOMENCLATURE						
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					DEPLOYMENT/EMPLOYMENT CONTAINERS						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
3. CONTAINER, 62X42X30 NSN 8145-01-118-9874 FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	NOV 96	291	1,463				
FY96 FIRST ARTICLE	PLASTICS RESEARCH CORP SANTA FE SPR, CA	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	40,375 <sup>3</sup>				
FY97	PLASTICS RESEARDH CORP SANTA FE SPR, CA	OPT/FP 2 (1 <sup>st</sup> YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	391	1,539	YES	NO		
4. CONTAINER, 62X42X52 NSN 8145-01-118-9882 FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	DEC 96	32	1,843				
FY96 FIRST ARTICLE	FIBER REINFORCED PLASTICS COLUMBUS, OH	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	1,650 <sup>1</sup>				

## D. REMARKS \* UNIT COSTS IN ACTUAL DOLLARS

1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY				C. P-1 ITEM NOMENCLATURE							
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				DEPLOYMENT/EMPLOYMENT CONTAINERS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
(CONTAINER 62X42X52) FY97	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (1 <sup>ST</sup> YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	32	1,899	YES	NO		
FY99	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (2 <sup>ND</sup> YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	32	2,000	YES	NO		
5. CONTAINER, 84X42X52 NSN 8145-01-118-9883 FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	DEC 95	MAY 96	2	4,468				
FY97	TANKINETICS HARRISON, AR	C/FP	AFMC/WR-ALC	DEC 96	APR 97	2	4,566				
6. CONTAINER, 62X42X60 NSN 8145-01-118-9884 FY96	TANKINETICS HARRISON, AR	SS/FP	AFMC/WR-ALC	JUN 96	NOV 96	425	1,875				

  

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS		
1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.		
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.		
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.		
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT			C. P-1 ITEM NOMENCLATURE DEPLOYMENT/EMPLOYMENT CONTAINERS							
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST *	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
(CONTAINER, 62X42X60) FY96 FIRST ARTICLE	FIBER REINFORCED PLASTICS COLUMBUS, OH	C/FP	AFMC/WR-ALC	JUN 96	MAY 97	2	1,778			
FY97	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (1 <sup>ST</sup> YEAR)	AFMC/WR-ALC	JUN 97	JAN 98	136	1,892	YES	NO	
FY98	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (2 <sup>ND</sup> YEAR)	AFMC/WR-ALC	OCT 97	MAY 98	450	1,958	YES	NO	
FY99	FIBER REINFORCED PLASTICS COLUMBUS, OH	OPT/FP 2 (3 <sup>RD</sup> YEAR)	AFMC/WR-ALC	OCT 98	MAY 99	459	2,016	YES	NO	

  

D. REMARKS * UNIT COSTS IN ACTUAL DOLLARS		
1. FIRST ARTICLE (FA) COST INCLUDES TEST PLAN, REPORT AND CONTRACTOR INCENTIVE.		
2. OPTION TO FY96 CONTRACT IF SOURCE QUALIFIES. ANY SLIPPAGE WILL RESULT IN EXERCISING OPTIONS OF FY96 SOLE SOURCE CONTRACT WITH TANKINETICS.		
3. HIGHER FIRST ARTICLE COST RESULTS FROM TECHNICAL NATURE OF THE CONTAINER AND BEST FOLLOW-ON PRODUCTION OFFER FROM MANUFACTURER.		
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# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT  
CONTAINERS NSN: 8145-01-118-9872

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

4834  
719  
200  
5753

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:

FY98:

FY99:

FY00:

FY01:

TOTAL USAGE ( MONTHS)

PROCUREMENT LEADTIME: months

NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96

FY95

FY94

FY93

FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96

FY95

FY94

FY93

FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

0  
0  
0  
0  
0  
0  
0  
0  
0

TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

5753

## PROCUREMENT REQUIREMENT

Total FY98 Requirement

Less Net Assets

Required FY98 Procurement

Planned FY98 Procurement

Total FY99 Requirement

Less Net Assets

Less FY98 Planned Procurement

Required FY99 Procurement

Planned FY99 Procurement

## REMARKS:

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# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT  
CONTAINERS NSN: 8145-01-118-9873

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds

TOTAL ASSETS:

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:

FY98:

FY99:

FY00:

FY01:

TOTAL USAGE ( \_\_\_ MONTHS)

PROCUREMENT LEADTIME: \_\_\_ months

NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96

FY95

FY94

FY93

FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96

FY95

FY94

FY93

FY92

## INVENTORY OBJECTIVE

Number of Combat Loads

Assets Required for Combat Loads

Combat Expenditures

War Reserve Requirement

Annual Training

Annual Testing

Maintenance Pipeline

Air Force Requirement

Air National Guard Requirement

Air Force Reserve Requirement

TOTAL REQUIREMENT

## APPROVED ACQUISITION OBJECTIVE

5048

## PROCUREMENT REQUIREMENT

Total FY98 Requirement

Less Net Assets

Required FY98 Procurement

Planned FY98 Procurement

Total FY99 Requirement

Less Net Assets

Less FY98 Planned Procurement

Required FY99 Procurement

Planned FY99 Procurement

## REMARKS:

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Exhibit P-20 Requirements Study

# UNCLASSIFIED REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT  
CONTAINERS NSN: 8145-01-118-9882

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds  
TOTAL ASSETS:

30  
34  
32  
96

## USAGE (Planned & Projected thru FY99 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:

TOTAL USAGE ( MONTHS)  
PROCUREMENT LEADTIME: months

## NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

0  
0  
0  
0  
0  
0  
0  
0  
0

## TOTAL REQUIREMENT

133

## APPROVED ACQUISITION OBJECTIVE

133

## PROCUREMENT REQUIREMENT

Total FY98 Requirement  
Less Net Assets  
Required FY98 Procurement  
Planned FY98 Procurement

133  
96  
37  
0

Total FY99 Requirement  
Less Net Assets  
Less FY98 Planned Procurement  
Required FY99 Procurement  
Planned FY99 Procurement

133  
96  
0  
37  
32

## REMARKS:

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REQUIREMENTS STUDY

DATE: FEBRUARY 1997  
P-1 ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT  
CONTAINERS NSN: 8145-01-118-9884

APPROPRIATION / BUDGET ACTIVITY:  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT  
EQUIPMENT

ASSETS		
On Hand as of 31 Mar 96	6700	
Due-in w/all Prior Years' Funds	472	
Due-in w/FY97 Funds	136	
TOTAL ASSETS:	7308	
USAGE (Planned & Projected thru FY99 FDP)		
FY97 since as of date:	0	
FY98:	0	4640
FY99:	0	2896
FY00:	0	968
FY01:	0	
TOTAL USAGE ( MONTHS)	0	8504
PROCUREMENT LEADTIME: _____ months		

APPROVED ACQUISITION OBJECTIVE

7308

NET ASSETS:

ACTUAL TRAINING EXPENDITURE

FY96	8504
FY95	7308
FY94	1196
FY93	450
FY92	

ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96	8504
FY95	7308
FY94	450
FY93	746
FY92	459

REMARKS:

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DATE: FEBRUARY 1997

ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS

FY 98/99 BUDGET PRODUCTION SCHEDULE

ITEM/MANUFACTURER/ YEAR	PROCUREMENT SERV	PROC QTY	ACCP. PRIOR TO 1 OCT	BALANCE DUE AS OF 1 OCT	FISCAL YEAR 97												FISCAL YEAR 98												FISCAL YEAR 99											
					CALENDAR YEAR 97												CALENDAR YEAR 98												CALENDAR YEAR 99											
					OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	OCT	NOV	DEC	JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP
<b>3. CONTAINER</b>																																								
8145-01-118-9874, 62 X 42 X 30																																								
TANKINETICS																																								
FY96	AF	291	0	291																																				
TOTAL		291	0	291																																				
<b>PLASTICS RESEARCH CORP</b>																																								
FY96	AF	2	0	2																																				
FY97	AF	391	0	391																																				
TOTAL		393	0	393																																				
<b>4. CONTAINER</b>																																								
8145-01-118-9882, 62 X 42 X 52																																								
TANKINETICS																																								
FY96	AF	32	0	32																																				
TOTAL		32	0	32																																				
<b>FIBER REINFORCED PLASTICS</b>																																								
FY96	AF	2	0	2																																				
FY97	AF	32	0	32																																				
FY99	AF	32	0	32																																				
TOTAL		66	0	66																																				
MANUFACTURER'S NAME AND LOCATION	PRODUCTION RATES MUST 1-85		REACHED D+		REMARKS:																																			
SEE ABOVE					SEE FOOTNOTE 2 ON P-5A.																																			
INITIAL					ADMIN LEAD TIME												MANUFAC- TURING TIME												TOTAL											
REORDER (PREVIOUS SOURCE)					PRIOR 1 OCT												AFTER 1 OCT												AFTER 1 OCT											

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DATE: FEBRUARY 1997

ITEM NOMENCLATURE: DEPLOYMENT/EMPLOYMENT CONTAINERS

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE	FEBRUARY 1997
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002
QUANTITY							
COST (In Mil)	-	\$0.802	\$9.627	\$10.668	\$4.038	3.601	3.681
							3.736

1. The A/E32C-39 air conditioner, NSN 4120-00-483-2880, is an electric motor driven, vapor cycle, skid mounted air conditioner with a cooling capacity of 54,000 British Thermal Unit/HR (BTU/HR), five tons. It provides environmental control, both cooling and heating, for aircraft electronic maintenance shops and portable buildings. Additionally, a nuclear, biological, chemically-hardened version is used to support War Reserve Material (WRM) requirements for transportable field hospitals.
2. These air conditioners will replace assets that have exceeded their service life and that are no longer economical to repair or maintain. The old assets also contain hydrochlorofluorocarbon (HCFC-22) which is a Class II ozone layer-depleting substance due to be phased out by the year 2005. The A/E32C-39 air conditioner, which will contain a non-ozone depleting refrigerant, is required for the government to be in compliance with the Montreal Protocol Treaty on Substances and the Clean Air Act requiring the elimination of HCFC-22 refrigerants. In addition to the compliance requirements stated previously, FY98/99 procurement of these air conditioners is required to provide support to field hospitals and prevent premature failure of electronic equipment during aircraft testing procedures.

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			-			-
FY97			-			-
FY98			1.759			.361
FY99			1.756			.361

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## WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)

A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME		C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION		D. DATE			
OPA/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		AIR CONDITIONERS		See Manufacturing Information on P-5A		FEBRUARY 1997			
Weapon System Cost Elements	IDENT CODE	FY 1996		FY 1997		FY 1998		FY 1999	
		QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST

Air Conditioner A/E32C-39	A				3	22,000	66	437	12,050	5,266	620	12,040	7,465
Air Conditioner A/E32C-39 Nuclear Biological Chemically Hardened	A							321	13,617	4,361	235	13,628	3,203
Contractor Incentive							200						
Production Tooling							236						
Testing							250						
Type I Training							50						
TOTAL							802			9,627			10,668

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE AIR CONDITIONERS					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
AIR CONDITIONERS FY90	AIRTACS CORP RED LION, PA	OPT/FFP	AFMC/SA-ALC	JUN 90	MAR 91	380	2,500			
AIR CONDITIONER A/E32C-39 FY97	UNKNOWN	C/FFP	AFMC/SA-ALC	MAY 97	JUL 98	3 <sup>1</sup>	22,000 <sup>2</sup>	YES	NO	
FY98	UNKNOWN	OPT/FFP	AFMC/SA-ALC	APR 98	SEP 98	437	12,050	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	NOV 98	AUG 99	620	12,040	YES	NO	
AIR CONDITONER A/E32C-39 NUCLEAR/BIOLOGICAL/CHEM HARDENED										
FY98	UNKNOWN	OPT/FFP	AFMC/SA-ALC	APR 98	SEP 98	321	13,617	YES	NO	
FY99	UNKNOWN	OPT/FFP	AFMC/SA-ALC	NOV 98	AUG 99	235	13,628	YES	NO	

D. REMARKS:				Exhibit P-5a Procurement History and Planning	
1. ONE FIRST ARTICLE UNIT WILL BE DESTROYED IN CHEMICAL TESTING.					
2. FY97 UNIT COST IS FOR FIRST ARTICLE UNITS BASED ON AN ENGINEERING ESTIMATE OF \$22,000.					
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# UNCLASSIFIED REQUIREMENTS STUDY

APPROPRIATION / BUDGET ACTIVITY: P-1 ITEM NOMENCLATURE: AIR CONDITIONERS  
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT Air Conditioner A/E32C-39 and A/E32C-39

DATE: FEBRUARY 1997

## ASSETS

On Hand as of 31 Mar 96  
Due-in w/all Prior Years' Funds  
Due-in w/FY97 Funds

TOTAL ASSETS:

## INVENTORY OBJECTIVE

Number of Combat Loads  
Assets Required for Combat Loads  
Combat Expenditures  
War Reserve Requirement  
Annual Training  
Annual Testing  
Maintenance Pipeline  
Air Force Requirement  
Air National Guard Requirement  
Air Force Reserve Requirement

TOTAL REQUIREMENT

DISPOSAL (Planned & Projected thru FY98 FDP)

FY97 since as of date:  
FY98:  
FY99:  
FY00:  
FY01:

TOTAL DISPOSALS (\_\_\_MONTHS)  
PROCUREMENT LEADTIME: 11 months

NET ASSETS:

## ACTUAL TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

## ACTUAL OTHER THAN TRAINING EXPENDITURE

FY96  
FY95  
FY94  
FY93  
FY92

REMARKS: One unit destroyed in testing

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE: ITEMS LESS THAN \$2,000,000 (BASE SUPPORT EQUIPMENT)					
	FY 1996	FY1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	\$10.167	\$4.958	\$9.731	\$14.630	\$23.030	\$19.466	\$20.225	\$19.907

1. This program provides a wide variety of base support items with worldwide application. Examples are: prefabricated shelters which provide industrial space at austere employment locations, water purification equipment, aircraft arresting systems, compressors which have various applications, refrigeration units, heaters, and trailer mounted steam cleaners.

2. All items have an annual procurement value of less than \$2,000,000 and are Code A. Items proposed for procurement in FY98/99 are identified below:

NOMENCLATURE	NSN	FY98		FY99	
		QTY	DOLLARS	QTY	DOLLARS
Remote Area Lighting Sys (RALS)	6230-00-386-0935	60	1.843	64	1.963
Converter Liquid Oxygen	3655-01-222-9494	60	.815	127	1.760
Mobile Aircraft Arresting Sys (MAAS)	1710-01-223-2235	4	1.590	4	1.625
BAK-14 A/C Arresting System	1710-01-421-0080	3	1.079	3	1.079
BAK-15 A/C Arresting System (62NI)	1710-01-418-5978	1	0.309	2	0.618
BAK-15 A/C Arresting System (150ft)	1710-01-372-8156	2	0.610	3	0.827
Servicing Platform	4940-01-089-0129			8	0.881
Tactical Maintenance Shelter, S530, 60HZ	5410-01-072-2517EJ	9	1.969	8	1.789
Tactical Maintenance Shelter, S530, 400HZ	5410-01-057-9384			5	1.435
Conveyor Highline Dock	3910-00-405-3453CT	47	0.960	40	0.840
Space Heater, UH-68	4520-00-683-8595	186	0.358	294	0.579
Items Less Than \$100 thousand			0.198		1.234
TOTAL			9.731		14.630

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE
APPROPRIATION/BUDGET ACTIVITY		P-1 ITEM NOMENCLATURE			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		ITEMS LESS THEN \$2,000,000 (BASE SUPPORT EQUIPMENT)			
FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001
QUANTITY					
COST (In Mil)					

3. ANG/AFR:

	QTY	ANG	DOLLARS	QTY	AFR	DOLLARS
FY96			.080			-
FY97			.592			.100
FY98			1.900			.529
FY99			5.000			2.500

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# UNCLASSIFIED

## BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)

BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)						DATE		FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	\$ .991	\$1.060	\$1.998	\$2.091	\$3.117	\$3.162	\$2.998	\$3.012	

The Technical Surveillance Countermeasures Equipment Program is a continuing program for the acquisition of Technical Surveillance Countermeasures (TSCM), Technical Investigative Equipment (TIE) and Investigative Support Equipment in support of the Air Force Office of Special Investigations (AFOSI). AFOSI-trained technical agent teams located on Air Force installations worldwide conduct specialized technical surveys to detect clandestine intelligence gathering devices in sensitive Department of Defense (DOD) facilities. These devices may be targeted against facilities for purposes of counterintelligence or competitive intelligence collections. These same agents also conduct numerous technical support operations annually in support of criminal, fraud, and counterintelligence investigations.

Some equipment items used to support these missions utilize antiquated technology and desperately need to be replaced. TSCM equipment must continually be updated to keep abreast of the technological advances incorporated in the design of current intelligence gathering devices. In addition, the use of technologically advanced equipment saves man-years of labor in extremely complex criminal and fraud investigations. As AFOSI's manpower pool decreases in size to meet DOD force structure levels, AFOSI's dependence on this advanced equipment will increase. Some equipment has also reached a phase in its life cycle when maintenance and repair costs have become excessive, and in some cases parts for those repairs are no longer available. The Air Force TSCM Program is in danger of becoming ineffective with the continued use of old equipment. Sensitive Air Force facilities will become highly vulnerable to technical penetration without new/upgraded equipment.

This program also includes Investigative Support Equipment that supports the AFOSI specialized investigative services (USAF Polygraph Program, AF Computer Crime Investigations, and AFOSI specialized evidence collection and analysis activities). Specially trained agents support all types of investigations with state-of-the-art surveillance equipment uniquely designed to monitor illicit activity and provide protection to undercover agents and informants. AFOSI polygraph examiners conduct over 6,000 polygraph examinations annually in support of criminal/fraud/counterintelligence investigations and counterespionage operations. Failure to maintain AFOSI's polygraph equipment will result in the loss of credibility of USAF polygraph exams and result in non-certification of USAF polygraph examiners. Advances in computer technology and the amount of sensitive data maintained in AF computer systems necessitates the procurement of state of the art equipment to aid in computer intrusion investigations and the analysis of computer media evidence.

Current AFOSI projects are described below:

1. **TSCM SURVEY SYSTEMS.** These systems consist of TSCM equipment/components necessary to detect, exploit, and neutralize clandestine technical surveillance systems employed against sensitive Air Force and DOD facilities. Equipment must be upgraded to counter the threat presented by new and advanced technical surveillance devices. The capabilities of the equipment being procured is constantly reviewed to ensure that the most comprehensive

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[illegible]

surveys are conducted to disclose the presence of clandestine monitoring devices. These systems have the capability to search for covert transmissions from facilities both from the interior and exterior while not alerting a potential adversary of the TSCM team's presence. These systems include equipment to examine telephone systems to determine their security. Additionally, equipment is needed to conduct non-destructive examinations of walls, furniture, etc. for concealed devices. FY97-99 funding continues to buy these systems.

2. **SPECIALIZED LAW ENFORCEMENT SURVEILLANCE EQUIPMENT.** This specialized equipment is uniquely designed for and utilized during lawfully authorized monitoring of activities and conversations. This visual monitoring must often occur during the hours of darkness and sophisticated light enhancement equipment must be used. Audio monitoring during meetings between suspected criminals and undercover agents must be accomplished without the possibility of the agent being identified; therefore, updated equipment that is smaller and less susceptible to detection and interception must be procured to ensure the agents' safety. Video and audio monitoring is often accomplished remotely and specialized equipment to clandestinely transmit the images and audio must be used. Advances in telephone systems require that continuing improvements and upgrades to AFOSI's telephone monitoring equipment be done to allow lawfully authorized intercepts. Additionally, the capability to track the movements of suspected individuals and contraband, without revealing law enforcement's presence and utilizing the latest advances in navigation and position systems, must be procured as existing technology in this area is rapidly becoming obsolete. Without maintaining pace with advancements in these areas, AFOSI's ability to detect and solve crimes with lawfully collected evidence from surveillances will be greatly diminished. FY96-99 funding continues procurement of additional surveillance equipment.

3. **DIGITAL IMAGING/STORAGE SYSTEMS.** These systems encompass both visual image (picture) and printed image (document) digitizing systems. The visual image systems complement the electronic still-photographic equipment now being purchased for use throughout the USAF. Environmental concerns are forcing AFOSI and the DOD into abandoning current wet-chemical type photo labs. These systems, retrofittable into 35mm camera systems currently in the AFOSI inventory, store images in solid-state circuitry instead of on film. Equipment is required to process the stored images and produce a viewable image on other media (film, paper, etc.), as well as to digitize existing photographs, slides, negatives, and images from video tape. This equipment will also enable the enhancement of the images, if necessary, to provide identification of subjects. These systems will extend the useful lifespan of camera systems maintained at AFOSI field units worldwide. FY98 funding will purchase new digital technology equipment.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)					DATE FEBRUARY 1997			
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)								

4. **COMPUTER CRIME AND INTRUSION INVESTIGATION SYSTEMS.** This system of equipment specifically supports the growing investigative case load resulting from increasing use of computers to implement crime and the explosion of incidences of attempted intrusions into USAF and other DOD computer systems. This system will require continuing updates and enhancements to maintain pace with the criminal element's use of computers. FY98 and 99 funds will purchase new investigative equipment to improve the edge against computer crimes.

5. ANG/AFR: None.

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**WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)**

**D. DATE**  
**FEBRUARY 1997**

[illegible]

1. TSCM Survey Systems	(330)	(160)	(800)	(960)
a. Portable TSCM Receivers	1	160	160	160
b. Support Unit Kits	33	10	330	6
2. Specialized Law Enforcement Surveillance Equipment	(661)	(900)	(143)	(116)
a. Digital Audio Recorders	13	19	19	19
b. Video Switcher	9	11.5	11.5	11.5
c. Microwave Transmitters	65	4.6	302	2
d. Spread Spectrum Transmitters	13	16.3	212	2
e. 8mm Video Equipment	16	2	29	26
f. Night Vision Devices	43	3	3	3
g. Pager Interception Eq	1	3	1	3
3. Digital Imaging/Storage Equipment	A	VAR	40	

## Exhibit P-5 Weapon System Cost Analysis

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WEAPON SYSTEM COST ANALYSIS EXHIBIT (P-5)										D. DATE FEBRUARY 1997	
A. APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		B. WEAPON MODEL/SERIES/ POPULAR NAME			C. MANUFACTURER NAME/PLANT/ CITY/STATE LOCATION			See Manufacturing Information on P-5A.			
OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT		TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT									
Weapon System Cost Elements		FY 1996		FY 1997		FY 1998		FY 1999			
IDENT CODE	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	UNIT COST	TOTAL COST	QTY	TOTAL COST

4. Computer Crime/ Intrusion Investigation System									(1,015)		(1,015)
a. Forensic Lab Eq	A						3	60	180	4	60
b. Agent Equipment	A						13	64.4	835	12	64.4
TOTAL			991			1,060			1,998		2,091

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)							A. DATE FEBRUARY 1997			
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
1. TSCM SURVEY SYSTEMS										
A. PORTABLE TSCM RECEIVERS										
FY97	MATRIX ENGR, INC BALTIMORE, MD	SS/FFP	AFMC/ASC	MAR 97	JUN 97	1	160	YES	NO	
FY98	MATRIX ENGR, INC	OPT/FP	AFMC/ASC	NOV 97	JAN 98	5	160	YES	NO	
FY99	MATRIX ENGR, INC	OPT/FP	AFMC/ASC	NOV 98	JAN 99	6	160	YES	NO	
B. SUPPORT UNIT KITS										
FY96	MATRIX ENGR, INC	SS/FFP	AFMC/ASC	AUG 96	NOV 96	33	10			
2. SPECIALIZED LAW ENFORCE. SURVEILLANCE EQUIPMENT										
A. DIGITAL AUDIO RECORDERS										
FY96	ADAPTIVE DIGITAL SYSTEMS IRVINE, CA	SS/FFP	AFMC/ASC	AUG 96	NOV 96	13	19			
FY97	ADAPTIVE DIGITAL SYSTEMS	OPT/FP	AFMC/ASC	NOV 96	JAN 97	13	19			
FY98	ADAPTIVE DIGITAL SYSTEMS	OPT/FP	AFMC/ASC	NOV 97	JAN 98	1	19	YES	NO	
D. REMARKS										
				P-1 SHOPP LIST ITEM NO. 109		PAGE NO. 165		Exhibit P-5a Procurement History and Planning		

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## BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)

BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)								A. DATE FEBRUARY 1997		
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT				C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPEC AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL

FY99	ADAPTIVE DIGITAL SYSTEMS	C/FFP (Option)	AFMC/ASC	NOV 98	JAN 99	2	19	YES	NO	
B. VIDEO SWITCHER FY97	UNKNOWN	C/FFP	AFMC/ASC	FEB 97	MAY 97	9	11.5	YES	NO	
FY98	UNKNOWN	OPT/FP	AFMC/ASC	NOV 97	JAN 98	8	11.5	YES	NO	
FY99	UNKNOWN	OPT/FP	AFMC/ASC	NOV 98	JAN 99	2	11.5	YES	NO	
C. MICROWAVE TRANSMITTERS FY96	GEN MICROWAVE SERVICES, INC., OCEANSIDE, CA	C/FP	AFMC/ASC	AUG 96	DEC 96	34	4.6			
FY97	GEN MICROWAVE SERVICES, INC.,	OPT/FP	AFMC/ASC	AUG 97	JAN 98	65	4.6	YES	NO	
D. SPREAD SPECTRUM TRANSMITTERS FY96	WESTINGHOUSE / AID, INC. FORT LAUDERDALE FL	SS/FFP	AFMC/ASC	AUG 96	DEC 96	13	16.3			

D. REMARKS		P-1 SHOPP LIST ITEM NO.	PAGE NO.	Exhibit P-5a Procurement History and Planning	
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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT					
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL
FY97	WESTINGHOUSE / AID, INC	OPT/FFP	AFMC/ASC	AUG 97	JAN 98	13	16.3	YES	NO	
E. 8MM VIDEO EQUIPMENT FY97	SONY, INC. TRENTON, NJ	SS/FFP	AFMC/ASC	NOV 96	JAN 97	16	2			
FY98	UNKNOWN	C/FP	AFMC/ASC	NOV 97	JAN 98	14	2	YES	NO	
FY99	UNKNOWN	C/FP	AFMC/ASC	NOV 98	JAN 99	26	2	YES	NO	
F. NIGHT VISION DEVICES FY96	ITT CORP. ROANOKE, VA	SS/FFP	AFMC/ASC	JUL 96	OCT 96	20	2.2			
G. PAGER INTERCEPTION EQ FY97	FBI/TGA TECHNOLOGIES ATLANTA, GA	MIPR/OPT	AFMC/ASC	NOV 96	JAN 97	1	3			
FY98	FBI/TGA TECHNOLOGIES	MIPR/OPT	AFMC/ASC	NOV 97	JAN 98	1	3	YES	NO	
FY99	FBI/TGA TECHNOLOGIES	MIPR/OPT	AFMC/ASC	NOV 98	JAN 99	1	3	YES	NO	

D. REMARKS

Exhibit P-5a Procurement History and Planning

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BUDGET PROCUREMENT HISTORY PLANNING EXHIBIT (P-5A)										A. DATE FEBRUARY 1997	
B. APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQUIPMENT					C. P-1 ITEM NOMENCLATURE TECHNICAL SURVEILLANCE COUNTERMEASURES EQUIPMENT						
COST ELEMENT/ FISCAL YEAR	CONTRACTOR/ LOCATION	CONTRACT METHOD & TYPE	CONTRACTED BY	AWARD DATE	DATE OF FIRST DELIVERY	QUANTITY	UNIT COST	SPECS AVAIL NOW	SPEC REV REQ'D	IF YES, WHEN AVAIL	
3. DIGITAL IMAG/STORAGE EQ FY98	EASTMAN KODAK ROCHESTER, NY	SS/FFP	AFMC/ASC	NOV 97	JAN 98	VAR	N/A	NO	YES	APR 97	
4. COMPUTER CRIME/INTRUSION INVESTIGATION SYSTEM											
A. FORENSIC LAB EQUIPMENT FY98	UNKNOWN	C/FFP	AFMC/ASC	NOV 97	JAN 98	3	60	NO	YES	APR 97	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	JAN 99	4	60	NO	YES	APR 98	
B. AGENT EQUIPMENT FY98	UNKNOWN	C/FFP	AFMC/ASC	NOV 97	JAN 98	13	64.4	NO	YES	APR 97	
FY99	UNKNOWN	OPT/FFP	AFMC/ASC	NOV 98	JAN 99	12	64.4	NO	YES	APR 98	
D. REMARKS											
				P-1 SHOPP LIST ITEM NO.	109	PAGE NO.	168	Exhibit P-5a Procurement History and Planning			

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)										DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ			P-1 ITEM NOMENCLATURE: INDUSTRIAL PREPAREDNESS							
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003		
QUANTITY										
COST (In Mil)	\$1.115	\$1.350	\$1.243	\$1.194	\$1.205	\$1.220	\$1.239	\$1.255		

1. The Air Force industrial activities combine the resources of several appropriations to create a comprehensive program. The goal is to ensure that the defense industry is capable of supplying reliable and affordable systems to operational commanders during peacetime and national emergencies. Major elements in the program include management of government-owned industrial plants, the Defense Production Act Program, and support for industrial base (IB) activities. IB activities characterize the critical sectors and industries within the industrial base, and provide information on industrial capability issues for consideration during key budget allocation, weapons acquisition, and logistics support decision processes. Funds in the Other Procurement/Air Force Appropriation support IB activities through procurement of equipment for collection analysis surrounding problems, constraints, and endangered capabilities in the industrial base for communications/electronics and space systems. The collection data in turn supports affordable acquisition and sustainability requirements for these systems.

2. ANG/AFR: None

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)							DATE
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE					MODIFICATIONS
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	
QUANTITY							FY 2003
COST (In Mil)	\$0.98	\$0.195	\$0.193	\$0.175	\$0.185	\$0.184	\$0.295
							\$0.304

1. Permanent modifications are configuration changes to in-service systems and equipment which correct material or other deficiencies or which add or delete capability. Safety modifications correct deficiencies which would produce hazards to personnel, systems or equipment. This budget line encompasses both new and on-going modification efforts for base maintenance and support equipment.

2. The amount budgeted in FY98 and FY99 is for "Miscellaneous Low Cost Modifications" to satisfy historically unforeseen modification requirements such as the low cost modification to the Two Hour Breathing Apparatus allowing access to outside air versus containerized air.

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)		DATE FEBRUARY 1997						
APPROPRIATION/BUDGET ACTIVITY OPAF/OTHER BASE MAINTENANCE AND SUPPORT EQ		P-1 ITEM NOMENCLATURE: FIRST DESTINATION TRANSPORTATION						
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003
QUANTITY								
COST (In Mil)	\$11.854	\$13.521	\$15.351	\$14.888	\$15.165	\$15.304	\$15.382	\$15.506

First Destination Transportation (FDT) is the movement of property from free-on-board (F.O.B.) point of acquisition to the point at which the material is first received for use, storage, or distribution, in the military supply system. When it is to the advantage of the government, transportation costs are included in the contractual price of investment items (F.O.B. destination) and financed as part of their unit cost. This P-1 line program provides for CONUS inland movement of material newly procured by Air Force major commands (MAJCOMs) from contract plants to depot facilities, CONUS Air Force bases, or aerial/water ports for onward movement. FY98/99 funding will provide for shipment of items procured F.O.B. origin from Air Force Procurement Appropriations (Aircraft, Missile, Ammunition and Other Procurement). The requirement is based on material buy programs in the procurement appropriations and is computed using a factor relationship of FDT costs to the value of procurement programs.

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## **SPARES & REPAIR PARTS**



DEPARTMENT OF THE AIR FORCE  
OTHER PROCUREMENT APPROPRIATION ESTIMATES  
FOR FISCAL YEARS 1998-1999

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SPARE AND REPAIR PARTS

<u>P-1 Line No.</u>	<u>Item</u>
118	Initial Spares

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BUDGET ITEM JUSTIFICATION (EXHIBIT P-40)								DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY OPAF/SPARES AND REPAIR PARTS				P-1 ITEM NOMENCLATURE SPARES AND REPAIR PARTS					
	FY 1996	FY 1997	FY 1998	FY 1999	FY 2000	FY 2001	FY 2002	FY 2003	
QUANTITY									
COST (In Mil)	57.651	37.016	55.771	51.018	41.041	35.365	25.140	21.942	

1. Initial Spares are repairable components, assemblies, and subassemblies, as well as consumables required as initial stockage (including readiness spares package requirements) in support of newly fielded vehicles, other base maintenance and support equipment, and electronics and telecommunications equipment. Requirements are determined by applying established factors against the acquisition cost of the end items. The factors are based on historical data on similar equipment, employment/deployment concepts, production schedules and other related information. Initial spares are procured using obligation authority in the Air Force Supply Management Business Area (AFSMB) of the Air Force Working Capital Fund (AFWCF) with the exception of intelligence and communications security spares which are not managed by the Standard Base Supply System (SBSS). For spares bought through the AFWCF procurement funds will reimburse the AFSMB as outlays occur and are, therefore, budgeted based on outlay projections. Funds for spares not managed through the SBSS are budgeted in the year of the requirement.
2. Replenishment Spares are repairable components, assemblies, and subassemblies required for follow-on support of end items. The Air Force Working Capital Fund procures non-stock listed spares in support of classified programs which are not managed through the Standard Base Supply System.

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INITIAL SPARE AND REPAIR PARTS SUMMARY EXHIBIT (P-1S)				DATE	FEBRUARY 1997
APPROPRIATION/SERVICE: OTHER PROCUREMENT/AIR FORCE		MILLIONS OF DOLLARS			
	FY96	FY97	FY98	FY99	

INITIAL SPARES	56.963	36.073	55.641	50.932
REPLENISHMENT SPARES	0.688	0.943	0.130	0.086
TOTAL	57.651	37.016	55.771	51.018

P-1 SHOPP LIST ITEM NO. 118	PAGE NO. 2	Exhibit P-1S, Spare and Repair Parts Summary
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INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)				DATE
APPROPRIATION/BUDGET ACTIVITY TITLE/NO.				FEBRUARY 1997
OPAF/SPARES AND REPAIR PARTS		P-1 ITEM NOMENCLATURE		
		SPARES AND REPAIR PARTS		
	FY 96	FY 97	FY 98	FY 99
				TOTAL COST

P-1 Line No. 23, 31 VEHICULAR EQUIPMENT	.188	.132	.128	.087	.535
P-1 Line No. 29 60K AIRCRAFT LOADER	0	0	1.011	2.612	3.623
P-1 Line No. 36 COMSEC EQUIPMENT	.687	.732	.753	.738	2.910
P-1 Line No. 38 INTEL DATA HANDLING	0	0	.457	.398	.855
P-1 Line No. 40 INTEL COMMUNICATIONS EQUIPMENT	.655	0	1.599	.064	2.318
P-1 Line No. 42 NATIONAL AIRSPACE SYSTEM	0	0	.029	.162	.191
P-1 Line No. 43 THEATER AIR CONTROL SYSTEM IMPRV	10.798	6.659	6.277	4.061	27.795
P-1 Line No. 44 WEATHER OBSERVATION/FORECAST	3.631	.828	1.101	.253	5.813
P-1 Line No. 45 STRATEGIC COMMAND AND CONTROL	.328	0	1.183	.923	2.434
P-1 Line No. 46 CHEYENNE MOUNTAIN COMPLEX	5.671	2.701	3.244	.952	12.568

P-1 SHOPP LIST ITEM NO. 118	PAGE NO. 3	Exhibit P-18a, Spare and Repair Parts Requirements		
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INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)					DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		P-1 ITEM NOMENCLATURE				
OPAF/SPARES AND REPAIR PARTS		SPARES AND REPAIR PARTS				
	FY 96	FY 97	FY 98	FY 99	TOTAL COST	
P-1 Line No. 47 TAC SIGINT SUPPORT	.506	.463	.590	.574	2.133	
P-1 Line No. 51 MOBILITY COMMAND & CONTROL	1.775	.581	1.276	.227	3.859	
P-1 Line No. 52 AIR FORCE PHYSICAL SECURITY	2.118	2.808	2.030	1.047	8.003	
P-1 Line No. 53 COMBAT TRAINING RANGES	3.319	1.456	3.010	1.874	9.659	
P-1 Line No. 59 THEATER BATTLE MANAGEMENT C2 SYS	5.773	0	2.270	4.976	13.019	
P-1 Line No. 64 DEFENSE SUPPORT PROGRAM	.521	2.936	.186	.090	3.733	
P-1 Line No. 65 NAVSTAR GPS	.039	.052	.023	.015	.129	
P-1 Line No. 68 AIR FORCE SATELLITE CONTROL NETWORK	0	0	5.785	6.575	12.360	
P-1 Line No. 69 EASTERN/WESTERN RANGE I&M	.186	1.710	4.757	7.980	14.633	
P-1 Line No. 70 MILSATCOM SPACE	5.624	5.200	8.241	7.372	26.437	
P-1 SHOPP LIST ITEM NO. 118		PAGE NO. 4		Exhibit P-18a, Spare and Repair Parts Requirements		

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INITIAL SPARE AND REPAIR PARTS REQUIREMENTS/JUSTIFICATION EXHIBIT (P-18a)				DATE FEBRUARY 1997	
APPROPRIATION/BUDGET ACTIVITY TITLE/NO.		P-1 ITEM NOMENCLATURE			
OPAF/SPARES AND REPAIR PARTS		SPARES AND REPAIR PARTS			
	FY 96	FY 97	FY 98	FY 99	TOTAL COST

P-1 Line No. 71 SPACE MODS	4.426	5.589	3.040	1.952	15.007
P-1 Line No. 72 TACTICAL C-E EQUIPMENT	3.188	2.270	3.844	2.518	11.820
P-1 Line No. 75 TV EQUIPMENT (AFRTV)	.054	.091	.258	.248	.651
P-1 Line No. ITEMS LESS THAN \$2M, BASE SUPPORT	4.795	1.587	2.170	1.852	10.404
P-1 Line No. 80 COMM-ELECTRONIC MODS	.803	.458	1.329	2.765	5.355
P-1 Line No. XX AIR BASE OPERABILITY	.222	.568	1.137	.655	2.582
P-1 Line No. None JOINT TAC COMM PROGRAM	2.119	0	0	0	2.119
P-1 Line No. None WEAPONS STORAGE AND SECURITY	.225	.195	.043	.048	.511
TOTAL	57.651	37.016	55.771	51.018	201.456

P-1 SHOPP LIST ITEM NO. 118	PAGE NO. 5	Exhibit P-18a, Spare and Repair Parts Requirements
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